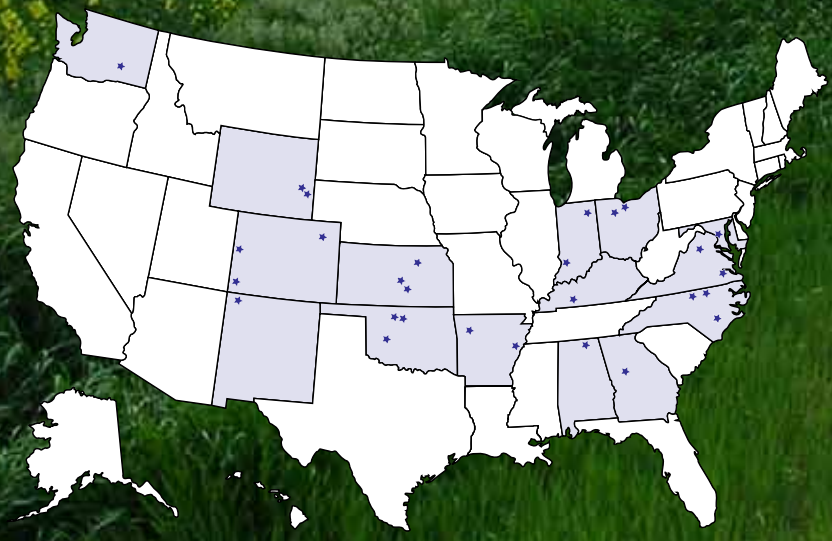
2009

National Winter Canola Variety Trial

Report of Progress 1026



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Kansas State University
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Agricultural Experiment Station
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2009 National Winter Canola Variety Trial
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Contribution no. 10-135-S from the Kansas Agricultural Experiment Station

2009 National Winter Canola Variety Trial

Introduction

Winter canola production is a good fit for small-grains cropping systems because both use the same equipment. Canola is an excellent crop to rotate with winter wheat. Wheat crops following canola have shown a 10% or greater increase in yield compared with continuous wheat. Canola is a broadleaf crop, which allows use of more effective herbicides to control grassy winter annual weeds. Canola and wheat have no major diseases in common, so growing canola breaks weed and disease cycles. Because canola is an oilseed, its commodity price is not tied to prices of cereal grains, which spreads economic risk over more than one commodity class.

Objectives

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 visibility of winter canola across the nation. Breeders, marketers, and producers use information collected from the trials. Over the past decade, the number of environments and entries tested have increased. The NWCVT is planted at locations in the Great Plains, Midwest, Northern Plains, and Southeast. The wide diversity of environments has improved our knowledge and understanding of winter canola variety performance.

Procedures

The NWCVT was distributed to 60 locations in 27 states during the 2008-2009 growing season. There were 54 entries; 27 of these are commercially available in the United States, and 27 are experimental. These entries were provided by 10 global seed suppliers. All entries in the trial were treated with either Helix XTra or Prosper FX seed treatments to control insects and diseases through the winter months. High erucic acid rapeseed (HEAR) entries were included at a few NWCVT locations, and their performance was compared with that of the most widely grown winter canola cultivars. By definition, HEAR is not canola because it produces greater than 2% erucic acid in the processed oil.

Management guidelines were supplied to cooperators, but previous experience in the regions influenced final management decisions. Agronomic information, site descriptions, and growing conditions are provided along with performance data for each location. All trials were planted in small research plots (approximately 100 ft^2) and replicated three times. Results for yield and winter survival at some locations include 2-year summaries. Entries are listed highest to lowest by grain yield.

The Robert M. Kerr Food and Agricultural Products Center at Oklahoma State University completed the total protein and oil analyses. This is the first year this lab performed these analyses for all locations.

The NWCVT continues in the 2009-2010 growing season and includes 45 entries. Ten seed suppliers contributed to the trial, and distribution was 63 locations in 24 states. The 2009-2010 trial does not include HEAR entries.

2008-2009 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 "08-09" represents actual precipitation.

In general, the 2008-2009 growing season was a successful year. Plants established well at the majority of locations. Most locations had excellent fall stands and adequate growth before winter. A late hard freeze occurred at full bloom, affecting the southernmost locations in the Great Plains. The crop recovered nicely, but yields were negatively affected. Over the years, winter canola has shown a tremendous capacity

to recover following unfavorable weather. Extremely high seed yields were achieved in environments where moisture was not limiting.

Test Locations

Four universities were new cooperators in 2008-2009: Cornell University, University of Maine, South Dakota State University, and University of Vermont.

Of the trials distributed, 11 locations were lost to winterkill, 2 to poor establishment, and 5 to adverse weather. Twenty-nine locations in 15 states were harvested, and the results are included in this report: Meridianville, AL; Kibler and Marianna, AR; Akron (dryland and limited irrigation), Fruita, and Yellow Jacket, CO; Griffin, GA; Columbia City and Vincennes, IN; Clearwater, Hutchinson, and Manhattan, KS; Russellville, KY; Beltsville, MD; Oxford, Reidsville, and Wallace, NC; Farmington, NM; Custar and Fremont, OH; Enid, Lahoma, and Weatherford, OK; Orange and Petersburg, VA; Othello, WA; and Lingle and Torrington, WY. Three locations were harvested but not reported because of poor data quality: East Lansing, MI; Columbia, MO, and Chillicothe, TX.

Results

The "percentage of test average" yield calculation is included in this year's 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. Varieties Kronos, Virginia, and Wichita were used as check comparisons. Regional summary tables were created with data from 2005 to 2009.

Overall yields were similar to those from 2007-2008 and generally above average in the Great Plains. Eleven of 29 harvested locations averaged greater than 2,000 lb/acre, and 18 included at least one variety with yield greater than 2,000 lb/acre. Irrigated sites in Colorado, New Mexico, Washington, and Wyoming as well as dryland locations in Arkansas, Georgia, Indiana, Kentucky, and Oklahoma had very high yields.

Variety Selection

Winter hardiness is an important trait to consider when selecting a winter canola variety. This trait has been improved over the past several years, but variability still exists where differential winterkill occurs. Winter canola varieties should show consistent survival across multiple locations before commercialization. Other traits to consider include glyphosate resistance, tolerance to carryover from sulfonylurea herbicides, maturity, and yield potential. Winter canola varieties and hybrids included in these trials are resistant to the blackleg fungus (Table 30).

Acknowledgments

This work was funded in part by the National Canola Research Program, United States Department of Agriculture, National Institute of Food and Agriculture, Oklahoma Agricultural Experiment Station, and Kansas Agricultural Experiment Station. Assistant scientist Cynthia La Barge and student workers Denton Bailey, Nic Sessions, and Leslie Vipond assisted with planting, harvest, and data preparation. Dr. Nurhan Dunford and her staff performed total protein and oil analyses. Sincere appreciation is expressed to all participating researchers, who have a dedicated interest in expanding winter canola production.

Meridianville, Alabama

Ernst Cebert, Alabama A&M University
Planted: 9/29/2008 at 6 lb/a in 7-in. rows
Harvested: 6/22/2009
Herbicides: Treflan
Insecticides: None
Irrigation: None
Previous Crop: Fallow
Soil Test: pH = 7.0
Fertilizer: 7-7-0 lb N-P-K fertilizer in fall
160-0-0 lb N-P-K fertilizer in spring
Soil Type: Decatur silty clay loam
Elevation: 624 ft Latitude: 34° 35'N
Comments:

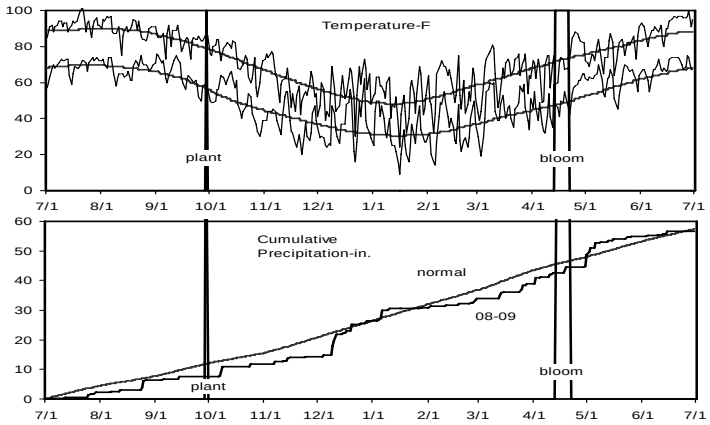


Table 1. Results for the 2009 National Winter Canola Variety Trial at Meridianville, AL

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Blm	Maturity	Plant Height	Lodging	Shatter	Moist.	Test Wt	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(d)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
Safran	**2714**	**3916**	3315	146	**98**	100	99	**9.0**	106	160	50	0.0	0.0	7.9	**59.1**	22.9	**43.0**
Rossini	**2696**	---	---	145	**98**	---	---	**9.3**	104	159	50	0.0	0.0	7.3	**63.4**	23.8	**42.7**
AAMU-33-07	**2422**	---	---	130	**100**	---	---	**10.0**	107	161	47	0.0	0.0	7.3	**57.2**	24.6	41.7
CWH111	**2370**	2918	2644	128	**99**	100	100	**9.3**	107	160	42	0.0	1.7	7.0	**57.1**	25.0	41.3
CWH101D	**2274**	---	---	122	**100**	---	---	**10.0**	105	159	46	0.0	0.0	6.9	**56.4**	22.7	**43.3**
BSX-6271	**2260**	---	---	122	**99**	---	---	**9.7**	110	162	49	1.7	0.0	8.4	**47.4**	**27.4**	40.6
BSX-501	**2236**	2910	2573	120	**100**	100	100	**9.7**	111	163	54	0.0	1.7	7.6	**49.9**	25.8	41.1
46W99	**2199**	**3299**	2749	118	**100**	100	100	**10.0**	106	159	49	1.7	1.7	6.8	**54.9**	23.8	**42.3**
NPZ0604	**2193**	---	---	118	94	---	---	8.0	106	159	49	3.3	1.7	7.1	**52.8**	23.8	**42.6**
CWH095D	**2133**	**3671**	2902	115	**100**	100	100	**9.3**	107	160	47	0.0	0.0	6.8	**53.0**	24.2	**42.2**
Kronos	**2106**	2618	2362	113	**100**	100	100	**9.7**	106	160	56	1.7	3.3	7.3	**49.2**	22.7	**42.2**
Hybrilux	**2066**	---	---	111	**98**	---	---	8.0	108	161	51	0.0	0.0	7.5	47.0	25.8	40.3
Sitro	**2017**	4268	3143	109	**98**	100	99	**8.7**	106	160	49	0.0	1.7	8.6	40.7	23.9	41.8
BSX-6131	**2014**	---	---	108	**100**	---	---	**10.0**	108	161	56	0.0	0.0	7.9	45.8	26.8	39.4
Visby	2004	3098	2551	108	83	100	92	7.0	104	158	49	3.3	0.0	7.2	46.7	24.4	41.2
KS4158	1994	**3300**	2647	107	**100**	100	100	**10.0**	108	161	49	0.0	0.0	7.6	44.5	26.0	41.7
ARC2189-2	1989	---	---	107	**97**	---	---	**9.0**	106	160	52	1.7	1.7	6.9	**48.5**	26.3	40.8
Flash	1985	**3471**	2728	107	**95**	100	98	8.0	109	161	52	0.0	0.0	7.4	46.7	23.4	**42.7**
Wichita	1978	**3461**	2720	107	**100**	100	100	**10.0**	107	160	48	0.0	0.0	7.4	45.5	26.9	40.0
Kadore	1958	**3363**	2660	105	**98**	100	99	**9.3**	110	162	46	0.0	0.0	8.5	40.0	23.9	41.2
Hybrisurf	1921	**3827**	2874	103	**98**	100	99	**9.3**	109	161	48	0.0	0.0	7.3	45.6	23.1	**43.5**
46W14	1916	**3447**	2681	103	**99**	100	100	**9.7**	106	160	49	1.7	1.7	7.2	45.0	24.7	**42.6**
BSX-6242	1908	---	---	103	**100**	---	---	**9.7**	105	159	50	0.0	0.0	7.5	43.9	26.7	40.2
DKW45-10	1895	2858	2376	102	**100**	100	100	**10.0**	105	159	45	0.0	3.3	7.7	42.5	25.9	41.6
KS3254	1883	**3765**	2824	101	**100**	100	100	**9.7**	108	160	49	0.0	0.0	7.6	42.8	24.2	41.9
Hybristar	1878	**4064**	2971	101	**99**	100	100	**9.0**	107	160	50	0.7	0.0	7.2	45.2	24.5	**42.5**
Sumner	1865	2292	2079	100	**100**	100	100	**10.0**	105	159	49	1.7	0.0	7.7	41.3	**27.4**	40.2
DKW46-15	1865	2915	2390	100	**99**	100	100	**9.7**	104	158	46	0.0	1.7	7.1	44.5	25.1	**42.7**
45D03	1842	3068	2455	99	**97**	100	98	**9.0**	106	159	47	0.0	0.0	7.3	43.5	22.5	**43.3**
KS3132	1841	**2884**	2362	99	**98**	100	99	**9.3**	108	161	50	0.0	0.0	7.8	40.6	25.0	40.9
CWH633	1822	2832	2327	98	**100**	100	100	**10.0**	106	159	48	0.0	0.0	7.2	42.8	25.0	**42.1**
KS4022	1797	**3570**	2683	97	**98**	100	99	**9.3**	106	160	48	0.0	0.0	7.5	41.3	25.4	41.0
KS3074	1782	**3495**	2638	96	**100**	100	100	**10.0**	105	160	53	0.0	0.0	7.3	42.3	25.7	41.1
BSX-6406	1753	---	---	94	**99**	---	---	**9.0**	107	160	51	1.7	0.0	7.2	41.8	25.6	40.7
ARC00024-2	1745	---	---	94	**97**	---	---	**8.7**	107	160	51	0.0	0.0	7.3	39.1	**26.9**	39.3
ARC00005-2	1725	---	---	93	**99**	---	---	**9.7**	110	161	52	0.0	0.0	7.0	41.8	25.0	41.4
HyClass107W	1718	1869	1794	93	**97**	100	98	**8.7**	105	159	47	1.7	0.0	7.6	38.8	**27.4**	40.5
HyClass110W	1651	3014	2333	89	**98**	100	99	**9.0**	106	160	43	3.3	0.0	7.2	39.1	**28.1**	39.4
DKW41-10	1627	2702	2165	88	**98**	100	99	**9.3**	106	159	43	0.0	1.7	6.9	39.9	**28.8**	39.6
HyClass115W	1604	2858	2231	86	**96**	100	98	**8.7**	108	160	47	0.0	0.0	7.4	37.5	25.6	41.3
Hornet	1558	2286	1922	84	**98**	100	99	**8.7**	105	158	48	0.0	0.0	6.8	38.9	23.5	**43.1**
HyClass154W	1533	2896	2215	83	**98**	100	99	**9.3**	108	161	51	0.0	0.0	7.7	34.1	25.6	39.7
Hybrigold	1520	**3929**	2724	82	93	100	97	7.7	110	162	49	0.0	1.7	7.3	36.0	26.2	40.3
Virginia	1497	3134	2315	81	94	100	97	8.0	111	163	44	0.0	0.0	7.2	35.6	25.7	41.2
Kiowa	1493	**3555**	2524	80	**100**	100	100	**9.7**	108	161	49	3.3	0.0	7.7	33.3	26.5	40.0

Table 1. Results for the 2009 National Winter Canola Variety Trial at Meridianville, AL

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Blm	Maturity	Plant Height	Lodging	Shatter	Moist.	Test Wt	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(d)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
Dimension	1440	**3537**	2488	78	93	100	97	7.7	109	161	46	0.0	0.0	7.0	35.2	24.9	**42.4**
DKW47-15	1411	3080	2245	76	**95**	100	98	8.0	104	158	48	0.0	1.7	7.4	32.3	**27.7**	40.0
KS4085	1399	**3537**	2468	75	**97**	100	98	**9.0**	109	161	50	0.0	0.0	7.6	31.6	**27.1**	40.2
Baldur	1311	3159	2235	71	94	100	97	8.0	107	160	50	0.0	1.7	7.0	32.6	25.0	40.2
Hearty	1302	---	---	70	**99**	---	---	**9.7**	106	160	51	0.0	1.7	7.5	29.5	25.0	40.8
ARC00004-2	1228	---	---	66	**98**	---	---	**9.3**	110	162	54	1.7	0.0	7.4	28.6	25.8	40.5
AAMU-18-07	1200	---	---	65	92	---	---	7.3	104	159	41	0.0	3.3	7.1	29.2	24.8	41.7
Mean	1856	3140	---	---	98	---	---	9.1	107	160	49	0.6	0.6	7.4	43.1	25.3	41.3
CV	23	22	---	---	3	---	---	9.7	2	1	7	---	---	7.9	23.1	3.8	1.6
LSD (0.05)	701	1095	---	---	5	---	---	1.4	4	2	5	---	---	NS	16.1	1.9	1.4

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers. Maturity is recorded as the date after January 1 when 90% of plants reach mature color.

Kibler, Arkansas

Jim Kelly, University of Arkansas
Planted: 10/3/2008
Harvested: 6/19/2009
Herbicides: Trifluralin 1 pt/a
Insecticides: None
Irrigation: None
Previous Crop: NA
Soil Test: NA
Fertilizer: 56-70-35-26-7 lb N-P-K-S-B fertilizer in fall
120-0-0 lb N-P-K fertilizer in spring
Soil Type: Roxana silt loam
Elevation: 392 ft Latitude: 35° 23'N
Comments: Severe thunderstorms negatively affected yields.

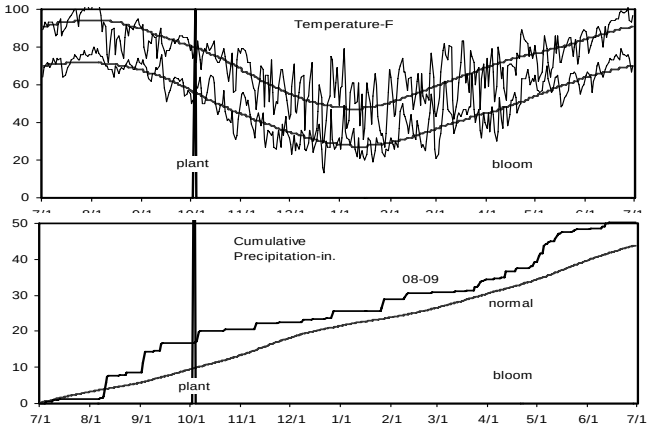


Table 2. Results for the 2009 National Winter Canola Variety Trial at Kibler, AR

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(lb/bu)	(%)	(%)
BSX-501	**2524**	---	---	189	---	---	---	**50.4**	**27.3**	37.9
Kronos	**2499**	---	---	188	---	---	---	**48.9**	25.1	36.5
Visby	**2065**	---	---	155	---	---	---	**49.5**	24.6	38.2
Hybristar	**1932**	---	---	145	---	---	---	**48.1**	25.4	37.2
Virginia	**1892**	---	---	142	---	---	---	**50.8**	**26.4**	37.7
Rossini	**1860**	---	---	140	---	---	---	**49.5**	**26.6**	36.3
Flash	1661	---	---	125	---	---	---	**48.9**	24.3	38.5
AAMU-33-07	1656	---	---	124	---	---	---	**50.7**	**26.9**	36.6
Safran	1633	---	---	123	---	---	---	**49.2**	**26.0**	36.3
HyClass110W	1632	---	---	122	---	---	---	**50.2**	**26.5**	36.5
ARC2189-2	1622	---	---	122	---	---	---	**50.5**	25.5	38.5
Hornet	1581	---	---	119	---	---	---	**49.9**	24.6	37.8
Hybrilux	1563	---	---	117	---	---	---	**49.7**	25.8	38.5
ARC00024-2	1549	---	---	116	---	---	---	**50.0**	25.9	37.7
Sitro	1517	---	---	114	---	---	---	**50.0**	25.1	36.4
BSX-6131	1480	---	---	111	---	---	---	**50.3**	**27.3**	37.3
ARC00005-2	1479	---	---	111	---	---	---	**50.5**	25.0	38.7
Hybrigold	1477	---	---	111	---	---	---	**48.4**	25.5	36.7
DKW47-15	1474	---	---	111	---	---	---	**47.9**	24.8	37.7
BSX-6406	1464	---	---	110	---	---	---	**49.4**	**27.1**	37.3
BSX-6242	1451	---	---	109	---	---	---	**49.6**	25.9	37.3
HyClass115W	1379	---	---	104	---	---	---	**49.3**	**26.1**	37.2
DKW46-15	1356	---	---	102	---	---	---	**48.4**	**26.0**	37.3
46W14	1356	---	---	102	---	---	---	**48.5**	**27.3**	36.1
NPZ0604	1355	---	---	102	---	---	---	**49.5**	**26.1**	35.2
ARC00004-2	1285	---	---	96	---	---	---	**50.2**	**28.2**	35.6
CWH111	1240	---	---	93	---	---	---	47.3	**27.1**	35.3
Dimension	1219	---	---	92	---	---	---	**48.3**	24.1	39.1
KS4085	1207	---	---	91	---	---	---	**48.2**	**26.7**	37.8
BSX-6271	1200	---	---	90	---	---	---	**49.4**	**26.1**	37.1
Wichita	1187	---	---	89	---	---	---	**48.3**	**27.0**	37.9
HyClass154W	1185	---	---	89	---	---	---	**49.0**	**26.7**	36.8
Kiowa	1180	---	---	89	---	---	---	47.3	25.8	37.5
KS4158	1163	---	---	87	---	---	---	**48.3**	**26.6**	37.1
Hybrisurf	1163	---	---	87	---	---	---	**49.3**	**26.2**	35.7
Sumner	1156	---	---	87	---	---	---	**48.2**	**27.9**	35.3
KS4022	1140	---	---	86	---	---	---	**49.9**	**26.3**	37.5
CWH633	1139	---	---	86	---	---	---	46.2	**27.5**	36.3
DKW45-10	1118	---	---	84	---	---	---	46.9	**27.6**	33.6
46W99	1117	---	---	84	---	---	---	**49.1**	23.8	38.3
KS3074	1104	---	---	83	---	---	---	**49.8**	**26.6**	37.8
CWH101D	1043	---	---	78	---	---	---	**48.2**	25.5	36.6

Table 2. Results for the 2009 National Winter Canola Variety Trial at Kibler, AR

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(lb/bu)	(%)	(%)
CWH095D	990	---	---	74	---	---	---	**48.4**	25.7	37.5
Kadore	971	---	---	73	---	---	---	**47.9**	**26.2**	35.2
KS3254	924	---	---	69	---	---	---	**49.0**	**27.1**	36.3
KS3132	923	---	---	69	---	---	---	**48.8**	**27.5**	36.0
45D03	893	---	---	67	---	---	---	**49.0**	25.2	37.2
Baldur	748	---	---	56	---	---	---	47.3	25.1	37.1
HyClass107W	747	---	---	56	---	---	---	46.3	**28.0**	35.8
AAMU-18-07	735	---	---	55	---	---	---	42.9	**26.6**	35.2
DKW41-10	554	---	---	42	---	---	---	47.4	**27.2**	35.2
Hearty	487	---	---	37	---	---	---	**49.6**	**26.3**	36.6
Mean	1332	---	---	---	---	---	---	48.8	26.2	36.9
CV	35	---	---	---	---	---	---	3.9	4.2	3.6
LSD (0.05)	755	---	---	---	---	---	---	3.2	2.2	NS

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

Marianna, Arkansas

Jim Kelly, University of Arkansas
Planted: 9/29/2008
Harvested: 6/17/2009
Herbicides: Trifluralin 1 pt/a
Insecticides: None
Irrigation: None
Previous Crop: NA
Soil Test: None
Fertilizer: 46-46-0 lb N-P-K fertilizer in fall
120-0-0 lb N-P-K fertilizer in spring
Soil Type: Loring silt loam
Elevation: 234 ft Latitude: 34° 45'N
Comments:

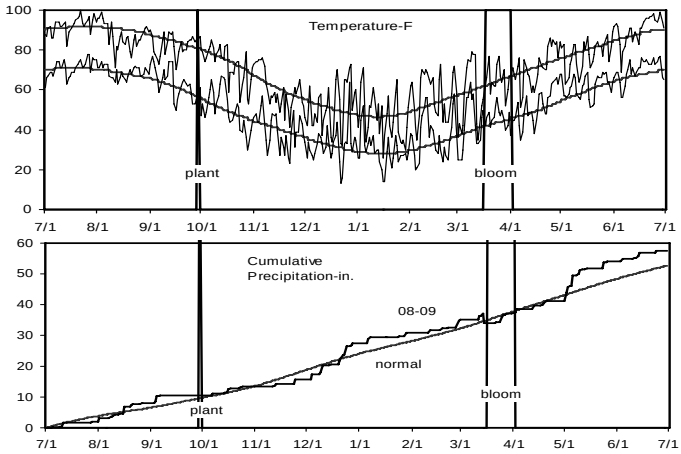


Table 3. Results for the 2009 National Winter Canola Variety Trial at Marianna, AR

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			50% Bloom	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(d)	(lb/bu)	(%)	(%)
Hybrilux	**2853**	---	---	132	---	---	---	85	**49.5**	**25.5**	**38.0**
Rossini	**2821**	---	---	131	---	---	---	79	**50.4**	**26.1**	**38.1**
Hornet	**2716**	2476	2596	126	---	---	---	82	48.4	23.3	**38.7**
Sitro	**2680**	2524	2602	124	---	---	---	80	48.7	24.3	36.2
Hybristar	**2607**	2643	2625	121	---	---	---	83	47.8	24.2	**39.3**
AAMU-33-07	**2596**	---	---	121	---	---	---	81	**49.7**	24.9	37.7
Dimension	**2596**	2422	2509	121	---	---	---	80	48.0	23.5	**39.3**
46W14	**2575**	1805	2190	120	---	---	---	80	**49.9**	23.3	**39.3**
Hybrigold	**2573**	1823	2198	119	---	---	---	84	48.6	24.9	37.3
Visby	**2570**	2070	2320	119	---	---	---	83	49.1	23.7	**38.2**
Safran	**2561**	**2913**	2737	119	---	---	---	87	47.0	24.2	**38.3**
Flash	2355	**2876**	2615	109	---	---	---	83	48.4	22.8	**40.1**
Virginia	2349	2205	2277	109	---	---	---	80	48.9	25.2	**38.2**
BSX-6242	2314	---	---	107	---	---	---	86	49.2	**26.7**	37.3
BSX-6271	2284	---	---	106	---	---	---	82	**49.5**	**25.6**	**38.3**
BSX-6406	2281	---	---	106	---	---	---	86	**49.6**	**26.0**	**38.3**
CWH095D	2279	2375	2327	106	---	---	---	81	48.3	24.1	**38.3**
Wichita	2276	2472	2374	106	---	---	---	87	49.3	25.2	**38.9**
BSX-501	2275	2401	2338	106	---	---	---	87	48.8	**27.4**	**38.2**
KS4158	2267	1675	1971	105	---	---	---	84	**49.6**	24.9	**38.8**
KS4022	2253	2660	2456	105	---	---	---	86	49.1	25.0	**39.1**
ARC00024-2	2236	---	---	104	---	---	---	88	49.4	24.5	**38.2**
KS3254	2228	2002	2115	103	---	---	---	84	**49.5**	24.9	**38.2**
ARC00005-2	2202	---	---	102	---	---	---	84	48.9	25.5	37.6
CWH101D	2189	---	---	102	---	---	---	82	48.2	24.2	**38.5**
HyClass154W	2174	**3037**	2605	101	---	---	---	84	49.3	24.9	**38.2**
KS4085	2173	2308	2240	101	---	---	---	85	**49.7**	25.4	**39.1**
BSX-6131	2171	---	---	101	---	---	---	88	**50.0**	**25.9**	**39.3**
KS3074	2117	2612	2364	98	---	---	---	86	**50.0**	**25.7**	**38.3**
AAMU-18-07	2107	---	---	98	---	---	---	76	47.8	**25.7**	36.8
ARC2189-2	2074	---	---	96	---	---	---	85	49.2	24.1	**40.1**
46W99	2051	2335	2193	95	---	---	---	78	**50.1**	23.7	**38.8**
Kiowa	2037	2570	2303	95	---	---	---	87	48.9	24.7	37.9
NPZ0604	2033	---	---	94	---	---	---	77	49.4	24.2	**38.1**
Sumner	2006	2558	2282	93	---	---	---	82	**49.8**	**26.8**	36.3
Kadore	1992	2486	2239	92	---	---	---	91	48.3	23.7	**39.3**
ARC00004-2	1966	---	---	91	---	---	---	89	**49.5**	24.7	**38.6**
45D03	1962	1184	1573	91	---	---	---	83	**49.9**	22.7	**40.1**
CWH633	1941	2213	2077	90	---	---	---	81	48.6	**26.2**	37.5
HyClass110W	1927	2483	2205	89	---	---	---	77	49.4	**26.1**	36.4
KS3132	1880	2352	2116	87	---	---	---	86	48.7	24.3	**38.3**

Table 3. Results for the 2009 National Winter Canola Variety Trial at Marianna, AR

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			50% Bloom	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(d)	(lb/bu)	(%)	(%)
Kronos	1872	2425	2148	87	---	---	---	84	49.1	23.5	37.3
CWH111	1861	2139	2000	86	---	---	---	82	49.2	24.9	36.8
Hybrisurf	1852	2212	2032	86	---	---	---	87	48.2	24.2	**39.1**
Baldur	1840	2430	2135	85	---	---	---	81	49.4	23.2	**39.1**
DKW47-15	1744	2034	1889	81	---	---	---	82	48.9	**25.6**	**38.0**
HyClass115W	1705	1147	1426	79	---	---	---	80	49.3	24.2	**38.9**
HyClass107W	1693	1823	1758	79	---	---	---	86	49.0	**26.3**	**38.1**
DKW46-15	1656	976	1316	77	---	---	---	84	48.7	24.3	**39.1**
DKW45-10	1587	2473	2030	74	---	---	---	77	49.4	**25.8**	36.8
DKW41-10	1583	2093	1838	73	---	---	---	77	**49.9**	**26.8**	35.3
Hearty	1040	---	---	48	---	---	---	83	**49.7**	24.4	**38.8**
Mean	2155	---	---	---	---	---	---	83	49.1	24.8	38.2
CV	11	---	---	---	---	---	---	1.1	1.1	3.8	2.8
LSD (0.05)	401	---	---	---	---	---	---	1	0.9	1.9	2.2

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

Griffin, Georgia

Don Day, Mitch Gilmer, John Gassett, and Gary Ware
University of Georgia at Griffin

Planted: 10/16/2008 at 5 lb/a in 7-in. rows
Harvested: 6/20/2009
Herbicides: Poast
Insecticides: Mustang Max
Irrigation: None
Previous Crop: Wheat
Soil Test: P=Medium, K=High, pH=6.6
Fertilizer: 30-70-105 lb N-P-K fertilizer in fall
120-6-0-30 lb N-P-K-S fertilizer in spring
Soil Type: Cecil sandy loam
Elevation: 924 ft Latitude: 33° 16'N
Comments:

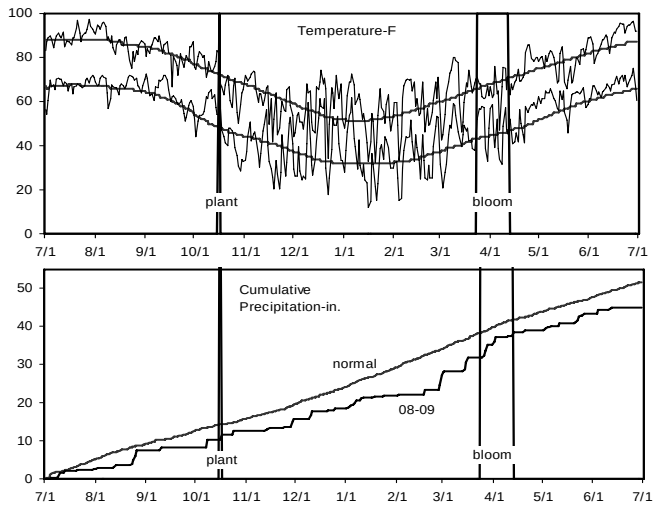


Table 4. Results for the 2009 National Winter Canola Variety Trial at Griffin, GA

	Yield (lb/a)			Yield (% of test avg.)	50% Bloom	Maturity	Plant Height	Lodging	Moist.	Test Weight	Protein	Oil
Name	**2009**	**2008**	**2-Yr.**	**2009**	**(d)**	**(d)**	**(in.)**	**(%)**	**(%)**	**(lb/bu)**	**(%)**	**(%)**
Hybrigold	**2774**	1064	1919	122	90	154	63	0.0	3.8	47.9	25.1	39.3
Safran	**2745**	**1939**	2342	120	93	155	65	0.0	3.6	48.8	24.8	37.5
Flash	**2736**	1124	1930	120	90	153	64	8.3	3.9	42.5	24.4	38.8
HyClass154W	**2674**	820	1747	117	92	156	66	0.0	3.8	48.0	26.4	36.5
CWH095D	**2651**	715	1683	116	94	153	60	3.3	3.9	49.3	26.2	37.3
46W14	**2647**	---	---	116	90	153	66	0.0	3.6	48.6	25.0	39.5
Dimension	**2490**	964	1727	109	86	151	62	0.0	3.7	44.6	24.1	**41.5**
Sitro	**2487**	**1792**	2139	109	88	149	61	21.7	3.8	48.9	25.4	37.7
Virginia	**2465**	1254	1860	108	87	149	57	10.0	3.8	49.6	26.6	37.9
Hybrilux	**2465**	---	---	108	91	154	66	0.0	3.9	46.1	26.9	38.7
Baldur	**2457**	834	1646	108	92	154	66	0.0	4.1	49.7	25.4	37.6
AAMU-33-07	**2456**	---	---	108	86	150	60	30.0	3.9	47.6	26.9	37.4
46W99	**2443**	---	---	107	87	149	61	0.0	3.6	47.4	25.2	39.1
BSX-6242	**2420**	---	---	106	90	154	63	0.0	4.0	49.0	28.1	36.7
Kadore	**2403**	1230	1817	105	102	156	58	0.0	3.8	47.3	26.2	36.4
BSX-501	**2376**	**1954**	2165	104	97	155	57	0.0	4.0	48.2	**29.0**	36.9
ARC00005-2	**2364**	---	---	104	91	155	66	0.0	3.9	48.0	25.9	37.8
Hybristar	**2363**	1337	1850	104	89	150	62	0.0	3.9	49.0	25.5	39.4
CWH633	**2354**	1346	1850	103	88	151	65	5.0	3.7	46.2	**29.0**	35.9
Hornet	**2346**	1506	1926	103	89	150	63	73.3	3.7	47.8	24.8	38.6
CWH111	**2334**	1055	1694	102	88	149	57	21.7	3.7	47.8	26.4	37.1
BSX-6131	**2320**	---	---	102	92	155	66	0.0	3.7	49.7	**28.5**	36.3
Kronos	**2319**	518	1418	102	91	152	66	0.0	3.8	50.4	25.6	37.9
KS4022	**2284**	1127	1706	100	91	155	61	20.0	3.8	47.3	26.9	37.7
ARC2189-2	**2275**	---	---	100	90	154	69	0.0	3.9	48.8	27.7	37.2
Kiowa	**2273**	790	1531	100	94	156	65	0.0	3.7	47.8	27.1	37.4
KS3074	**2272**	1242	1757	100	94	153	64	3.3	3.9	48.6	26.8	36.7
BSX-6271	**2266**	---	---	99	87	152	63	0.0	3.9	48.8	26.3	38.3
HyClass115W	2224	1185	1704	98	88	151	64	6.7	3.6	48.6	28.0	36.0
ARC00024-2	2213	---	---	97	90	154	71	18.3	3.9	46.0	27.9	36.0
BSX-6406	2212	---	---	97	90	154	64	0.0	3.5	48.3	26.3	37.0
AAMU-18-07	2191	---	---	96	77	143	57	33.3	4.0	47.2	27.3	36.6
CWH101D	2189	---	---	96	90	148	56	0.0	3.9	46.8	25.8	37.2
KS3132	2180	1054	1617	96	94	155	64	6.7	3.9	48.4	26.9	37.4
KS4085	2171	1332	1751	95	90	155	64	0.0	3.9	49.1	27.3	37.6
45D03	2151	---	---	94	99	155	65	0.0	3.7	48.2	24.6	39.0
DKW47-15	2143	**1533**	1838	94	90	152	64	23.3	3.8	46.7	**28.4**	36.5
DKW46-15	2129	862	1495	93	87	149	58	6.7	3.8	48.0	26.1	39.0
KS3254	2129	941	1535	93	92	156	65	5.0	3.8	46.5	26.5	37.1

Table 4. Results for the 2009 National Winter Canola Variety Trial at Griffin, GA

	Yield (lb/a)			Yield (% of test avg.)	50% Bloom	Maturity	Plant Height	Lodging	Moist.	Test Weight	Protein	Oil
Name	**2009**	**2008**	**2-Yr.**	**2009**	**(d)**	**(d)**	**(in.)**	**(%)**	**(%)**	**(lb/bu)**	**(%)**	**(%)**
Visby	2086	530	1308	91	88	147	61	0.0	3.7	49.9	24.6	38.9
ARC00004-2	2060	---	---	90	90	154	67	38.3	3.9	47.4	27.7	35.8
Sumner	2031	1465	1748	89	93	155	65	26.7	3.9	49.2	28.2	35.5
HyClass110W	2024	1332	1678	89	85	147	59	55.0	3.9	47.4	**28.3**	36.2
KS4158	2017	1477	1747	88	91	155	62	5.0	4.0	49.2	26.4	38.4
Hybrisurf	1991	1293	1642	87	95	153	62	0.0	3.7	47.6	24.7	38.3
Wichita	1982	501	1241	87	93	153	65	6.7	3.9	50.0	27.8	37.2
DKW41-10	1924	1104	1514	84	83	143	58	38.3	3.8	48.1	**29.5**	35.4
HyClass107W	1883	687	1285	83	92	149	63	71.7	3.8	47.9	**28.4**	37.5
NPZ0604	1827	---	---	80	87	146	58	13.3	3.8	48.8	25.1	38.5
DKW45-10	1795	1192	1494	79	83	143	58	40.0	4.1	48.4	**28.3**	36.1
Mean	2280	1026	---	---	90	152	63	11.8	3.8	48.0	26.6	37.5
CV	15	---	---	---	1	1	6	149.8	6.1	4.9	2.7	2.1
LSD (0.05)	543	270	---	---	2	2	6	28.7	NS	NS	1.2	1.3

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers. Maturity is recorded as the date after January 1 when 90% of plants reach mature color.

Robert Kratochvil, University of Maryland

Planted: 9/18/2008 at 6 lb/a in 7.5-in. rows
Harvested: 7/9/2009
Herbicides: Treflan 1.5 pt/a
Insecticides: None
Irrigation: None
Previous Crop: Soybean
Soil Test: NA
Fertilizer: 30-0-0 lb N-P-K fertilizer in fall
60-0-0 lb N-P-K fertilizer in spring
Soil Type: Matapeake silt loam
Elevation: 130 ft Latitude: 39° 00'N
Comments:

Beltsville, Maryland

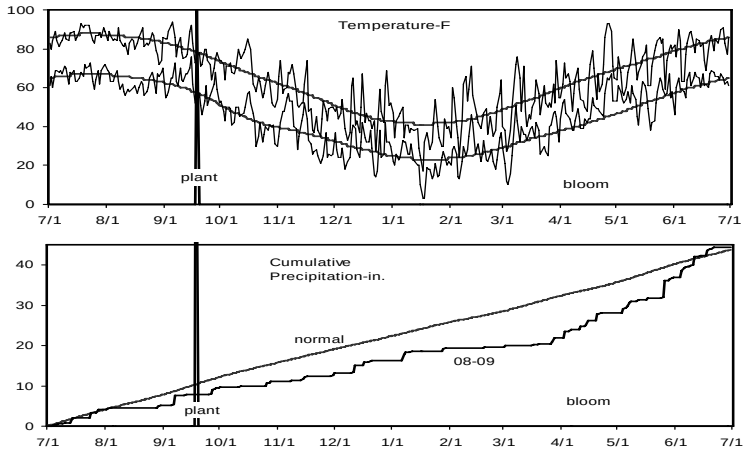


Table 5. Results for the 2009 National Winter Canola Variety Trial at Beltsville, MD

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	Bloom (% of open buds)	Maturity (%)	Plant Height	Lodging	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(4/16/09)	(6/15/09)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
KS3074	1844	---	---	143	6.7	27.5	57.5	63	1.9	4.0	5.1	50.9	23.8	40.7
Wichita	1618	---	---	125	7.1	47.5	72.5	62	3.0	3.3	4.9	47.2	23.9	40.3
Kiowa	1604	---	---	124	7.0	32.5	75.0	64	6.9	3.0	6.1	48.7	23.0	39.5
Hybrigold	1530	---	---	119	7.3	70.0	51.3	60	5.6	1.7	6.1	49.0	23.8	39.4
KS3254	1493	---	---	116	8.9	32.5	33.8	62	11.6	2.0	6.1	47.5	23.7	40.2
Hybristar	1488	---	---	115	7.9	87.5	47.5	61	17.8	1.0	6.0	49.4	23.2	40.3
KS4022	1464	---	---	114	7.0	25.0	12.5	60	17.0	3.0	6.6	48.7	24.1	39.8
Hybrisurf	1444	---	---	112	7.6	57.5	38.8	62	3.5	3.3	4.3	42.8	22.7	40.9
DKW47-15	1385	---	---	107	7.8	65.0	67.5	60	30.6	2.7	7.7	53.9	24.3	39.3
Kadore	1372	---	---	106	5.9	25.0	28.8	54	2.9	4.3	4.6	43.0	22.3	40.2
Virginia	1369	---	---	106	8.2	62.5	43.8	53	45.1	4.7	6.4	47.8	23.6	39.4
KS3132	1344	---	---	104	8.0	32.5	21.3	61	10.0	5.3	6.0	48.4	24.0	39.5
DKW41-10	1313	---	---	102	6.7	92.5	87.5	53	4.5	3.3	6.7	44.2	24.2	38.8
Baldur	1302	---	---	101	6.9	80.0	55.0	60	17.6	4.3	5.2	42.4	22.2	39.6
KS4085	1166	---	---	90	6.9	35.0	50.0	62	12.3	2.7	5.4	47.9	24.0	40.1
Kronos	1016	---	---	79	4.4	70.0	56.3	64	23.1	4.3	7.1	54.5	22.6	39.5
Sumner	1016	---	---	79	4.5	71.3	90.0	58	5.3	6.0	7.0	52.9	24.7	40.2
KS4158	937	---	---	73	8.1	70.0	63.8	58	23.1	2.3	5.0	41.2	23.6	39.4
Hybrilux	928	---	---	72	6.1	73.8	43.8	62	28.4	3.3	6.2	46.6	22.4	41.7
DKW45-10	844	---	---	65	5.1	87.5	76.3	55	34.9	3.3	4.7	40.8	23.4	39.4
DKW46-15	835	---	---	65	7.2	80.0	73.8	51	41.5	2.3	6.2	50.0	23.9	40.6
Mean	1290	---	---	---	6.9	58.3	54.6	59	16.5	3.3	5.9	47.5	23.5	40.0
CV	32	---	---	---	18.4	27.1	32.5	4	92.8	65.4	28.6	10.9	3.3	2.7
LSD (0.05)	NS	---	---	---	1.8	22.4	25.1	3	21.6	NS	NS	NS	NS	NS

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

Reidsville, North Carolina

Kim Tungate, North Carolina State University
Planted: 10/7/2008 at 5 lb/a in 8-in. rows
Harvested: 6/23/2009
Herbicides: Poast
Insecticides: None
Irrigation: None
Previous Crop: NA
Soil Test: pH=5.7
Fertilizer: 50-0-0-0 lb N-P-K-S fertilizer in fall
100-0-0-25 lb N-P-K-S fertilizer in spring
Soil Type: NA
Elevation: 722 ft Latitude: 36° 20'N
Comments:

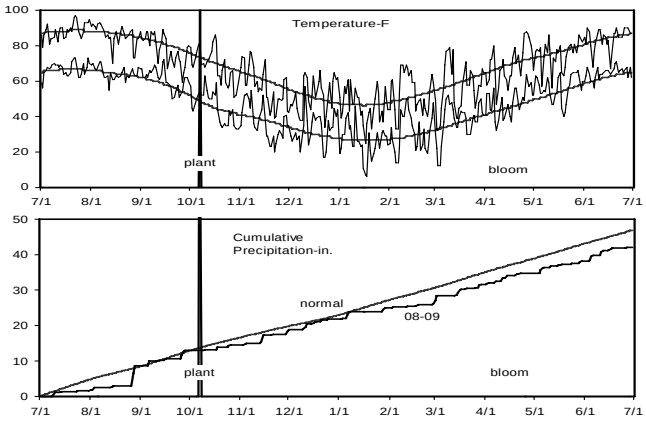


Table 6. Results for the 2009 National Winter Canola Variety Trial at Reidsville, NC

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Maturity	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in)	(%)	(%)	(%)
Dimension	1879	---	---	133	---	---	---	47	95.0	21.5	39.8
KS4158	1857	---	---	131	---	---	---	45	95.0	22.3	38.6
Virginia	1625	---	---	115	---	---	---	47	91.7	23.5	40.0
Kadore	1581	---	---	111	---	---	---	34	91.7	22.1	39.5
Kronos	1554	---	---	110	---	---	---	44	91.7	21.9	39.0
KS3077	1525	---	---	108	---	---	---	44	91.7	21.6	41.9
46W14	1468	---	---	104	---	---	---	43	93.3	21.1	43.2
Hybrisurf	1455	---	---	103	---	---	---	42	88.3	21.0	43.4
HyClass110W	1350	---	---	95	---	---	---	38	93.3	24.2	39.4
Hyclass154W	1344	---	---	95	---	---	---	40	93.3	23.1	40.1
Hybristar	1329	---	---	94	---	---	---	43	91.7	21.6	41.0
Kiowa	1326	---	---	94	---	---	---	37	90.0	22.9	37.9
KS3302	1286	---	---	91	---	---	---	40	93.3	22.4	40.4
Hybrigold	1267	---	---	89	---	---	---	41	91.7	22.0	41.4
Baldur	1265	---	---	89	---	---	---	41	95.0	21.1	38.0
CWH111	1260	---	---	89	---	---	---	41	89.7	21.7	39.9
Visby	1133	---	---	80	---	---	---	37	93.3	21.4	39.8
Wichita	1013	---	---	71	---	---	---	35	90.0	21.1	42.7
Mean	1418	---	---	---	---	---	---	41	92.2	22.1	40.4
CV	23	---	---	---	---	---	---	16	3.4	5.5	5.3
LSD (0.05)	NS	---	---	---	---	---	---	NS	NS	NS	NS

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

Oxford, North Carolina

Kim Tungate, North Carolina State University
Planted: 10/9/2008 at 5 lb/a in 8-in. rows
Harvested: 6/22/2009
Herbicides: Poast
Insecticides: None
Irrigation: None
Previous Crop: NA
Soil Test: pH=5.8
Fertilizer: 30-30-30-0 lb N-P-K-S fertilizer in fall
100-0-0-25 lb N-P-K-S fertilizer in spring
Soil Type: NA
Elevation: 456 ft Latitude: 36° 18'N
Comments:

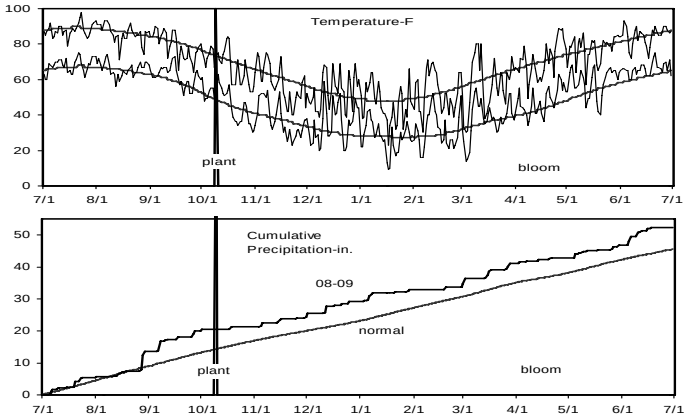


Table 7. Results for the 2009 National Winter Canola Variety Trial at Oxford, NC

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Maturity	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in)	(%)	(%)	(%)
Visby	1468	---	---	133	---	---	---	36	79.5	22.3	39.9
KS3077	1397	---	---	127	---	---	---	45	83.3	23.4	40.6
Hybridsurf	1353	---	---	123	---	---	---	48	78.3	22.3	41.7
46W14	1308	---	---	119	---	---	---	42	85.0	22.5	42.3
Hyclass110w	1223	---	---	111	---	---	---	47	77.0	23.7	40.7
Virginia	1221	---	---	111	---	---	---	34	85.0	23.0	39.2
Dimension	1185	---	---	107	---	---	---	41	83.3	22.7	40.3
Kronos	1185	---	---	107	---	---	---	42	87.0	23.2	40.4
Kadore	1131	---	---	103	---	---	---	35	73.0	22.6	41.8
CWH111	1107	---	---	100	---	---	---	41	81.7	21.9	42.9
Hybridgold	1100	---	---	100	---	---	---	37	78.3	23.9	37.9
Hybridstar	1086	---	---	98	---	---	---	36	71.7	22.1	42.1
KS4158	1076	---	---	98	---	---	---	32	82.0	23.6	41.3
Baldur	936	---	---	85	---	---	---	39	80.0	22.7	41.4
Kiowa	904	---	---	82	---	---	---	40	80.0	23.3	40.5
KS3302	819	---	---	74	---	---	---	42	81.7	23.2	40.8
Hyclass154w	742	---	---	67	---	---	---	45	83.3	23.4	41.9
Wichita	678	---	---	61	---	---	---	38	88.3	22.8	42.6
Mean	1103	---	---	---	---	---	---	40	81.5	22.9	40.9
CV	27	---	---	---	---	---	---	15	10.5	3.0	4.3
LSD (0.05)	NS	---	---	---	---	---	---	NS	NS	NS	NS

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

Wallace, North Carolina

Kim Tungate, North Carolina State University
Williamsdale Farm Agricultural Extension and Research Facility

Planted: 10/19/2008 at 5 lb/a in 8-in. rows
Harvested: 6/8/2009
Herbicides: Poast
Insecticides: None
Irrigation: None
Previous Crop: NA
Soil Test: pH=5.6
Fertilizer: 50-0-50-0 lb N-P-K-S fertilizer in fall
100-0-0-25 lb N-P-K-S fertilizer in spring
Soil Type: Sandy loam
Elevation: 59 ft Latitude: 34° 45'N
Comments:

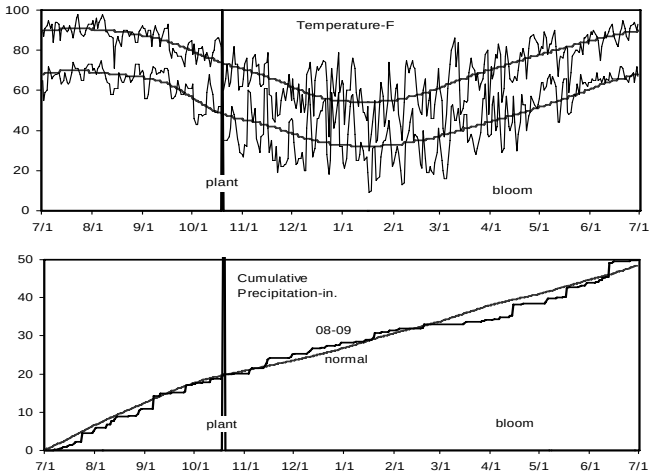


Table 8. Results for the 2009 National Winter Canola Variety Trial at Wallce, NC

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Maturity	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in)	(%)	(%)	(%)
Dimension	**2857**	---	---	134	---	---	---	50	81.7	22.1	42.4
Virginia	**2442**	---	---	115	---	---	---	37	90.0	23.4	40.3
46W14	**2381**	---	---	112	---	---	---	49	75.0	22.5	41.3
Kadore	2313	---	---	109	---	---	---	36	76.7	22.9	41.0
KS3302	2285	---	---	107	---	---	---	47	81.7	23.7	39.7
Hybristar	2278	---	---	107	---	---	---	52	83.3	22.6	41.2
Baldur	2269	---	---	106	---	---	---	50	77.8	23.1	39.0
CWH111	2152	---	---	101	---	---	---	48	88.3	22.7	41.8
Hybrisurf	2144	---	---	101	---	---	---	53	74.0	23.2	40.1
Kronos	2039	---	---	96	---	---	---	58	70.0	21.9	39.9
KS4158	2036	---	---	96	---	---	---	42	81.7	22.6	42.2
HyClass110W	2033	---	---	95	---	---	---	46	91.7	25.1	39.7
Visby	2025	---	---	95	---	---	---	45	76.7	21.6	41.6
Hybrigold	2000	---	---	94	---	---	---	50	75.7	23.4	38.7
Wichita	1917	---	---	90	---	---	---	46	80.0	22.6	41.5
KS3077	1884	---	---	88	---	---	---	53	81.7	22.8	41.2
Kiowa	1788	---	---	84	---	---	---	53	80.0	23.3	40.2
HyClass154W	1526	---	---	72	---	---	---	45	71.7	22.6	40.6
Mean	2131	---	---	---	---	---	---	48	80.1	22.9	40.7
CV	15	---	---	---	---	---	---	9	6.8	3.3	2.7
LSD (0.05)	537	---	---	---	---	---	---	7	9.1	NS	NS

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

Orange, Virginia

David Starner, Virginia Tech University
Planted: 9/18/2008 at 5 lb/a in 7-in. rows
Harvested: 6/30/2009
Herbicides: Treflan HFP 1 pt/a
Insecticides: None
Irrigation: None
Previous Crop: Canola
Soil Test: P=13 ppm, K=149 ppm, pH=6.2
Fertilizer: 25-64-0 lb N-P-K fertilizer in fall
60-0-0 lb N-P-K fertilizer in spring
Soil Type: Starr silty clay loam
Elevation: 490 ft Latitude: 38° 13'N
Comments: Third wettest May on record, 38 days with rain in May and June. Shatter was 10% loss across the entire plot.

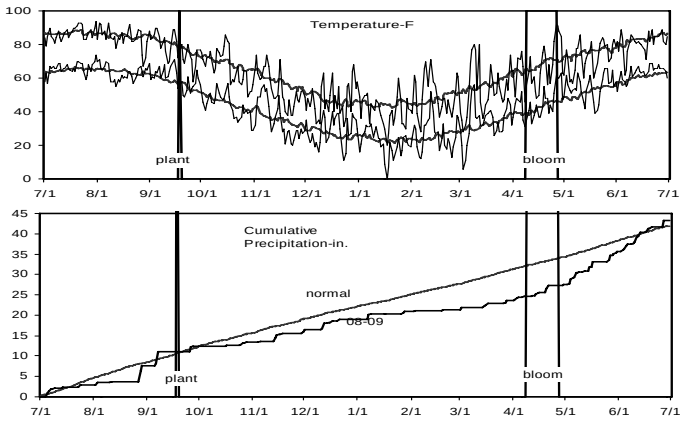


Table 9. Results for the 2009 National Winter Canola Variety Trial at Orange, VA

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	50% Bloom	Maturity	Plant Height	Lodging	Sclerotinia	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(d)	(d)	(in)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
Hornet	**1885**	---	---	172	**10.0**	110	175	62	86.7	**22.9**	7.7	**49.2**	22.6	**40.8**
Sitro	**1788**	---	---	163	**9.8**	108	173	62	84.7	**36.7**	7.1	**50.1**	24.1	**39.6**
Safran	**1628**	---	---	149	**10.0**	111	173	61	83.3	**32.9**	7.0	**49.6**	23.5	**39.6**
BSX-501	**1566**	---	---	143	**10.0**	112	173	64	36.7	**26.7**	7.2	**50.0**	**26.2**	38.8
Kadore	**1514**	---	---	138	**10.0**	112	174	57	53.3	**16.7**	7.6	**50.5**	25.3	36.3
Flash	**1509**	---	---	138	**9.7**	111	174	61	63.3	43.7	6.9	**49.2**	23.1	**39.8**
Rossini	**1440**	---	---	131	**10.0**	107	170	60	96.0	**26.7**	6.9	**49.6**	**26.3**	39.1
Hybrilux	1391	---	---	127	**9.7**	111	175	62	50.8	**33.3**	8.1	**49.2**	**26.1**	38.5
ARC2189-2	1378	---	---	126	**9.8**	110	173	62	56.7	**7.9**	8.7	48.8	**26.5**	38.1
45D03	1320	---	---	120	**10.0**	111	175	56	93.0	50.0	7.9	**50.4**	24.6	37.7
Hybrigold	1287	---	---	117	**10.0**	111	175	61	41.7	**33.3**	8.3	48.5	24.2	39.2
HyClass154W	1282	---	---	117	**10.0**	112	174	62	83.6	50.0	8.6	**49.2**	24.6	38.3
KS3074	1281	---	---	117	**10.0**	111	175	64	85.0	**13.4**	9.1	**49.2**	**26.7**	37.3
Visby	1268	---	---	116	**9.7**	107	172	58	31.0	72.6	7.2	47.5	23.3	**39.9**
NPZ0604	1261	---	---	115	**10.0**	110	174	62	73.3	**31.7**	7.4	48.6	23.5	**40.5**
CWH095D	1243	---	---	113	**10.0**	112	173	55	79.7	53.3	7.1	**49.2**	24.5	37.6
46W99	1232	---	---	113	**10.0**	111	172	60	83.3	46.7	7.4	**50.1**	24.4	**39.6**
46W14	1204	---	---	110	**10.0**	109	171	59	53.2	**26.7**	7.5	**49.7**	24.2	**40.2**
ARC00005-2	1198	---	---	109	**10.0**	116	175	63	88.0	50.0	8.7	**49.1**	**26.2**	37.2
Hearty	1194	---	---	109	**10.0**	112	173	59	61.0	**28.4**	8.0	**50.2**	26.0	39.2
ARC00004-2	1152	---	---	105	**10.0**	116	175	60	96.0	40.0	9.0	**49.5**	25.7	37.5
BSX-6131	1147	---	---	105	**10.0**	112	173	61	89.7	**23.7**	9.9	**49.0**	**26.7**	37.2
Kronos	1136	---	---	104	9.2	111	171	64	28.2	47.9	8.4	**50.4**	23.4	39.1
HyClass107W	1133	---	---	103	**9.7**	112	172	65	71.7	43.7	7.4	**49.6**	**27.5**	37.7
Kiowa	1132	---	---	103	**10.0**	111	174	65	76.7	**23.3**	9.3	**49.3**	25.2	38.2
ARC00024-2	1131	---	---	103	**10.0**	116	174	64	58.3	**36.7**	10.2	**49.3**	23.9	39.3
KS4085	1113	---	---	102	**10.0**	111	173	62	60.0	**12.9**	8.8	48.8	**26.5**	38.1
Hybristar	1090	---	---	100	**10.0**	109	173	61	63.0	62.6	7.7	47.4	25.8	38.1
Wichita	1080	---	---	99	**10.0**	112	170	61	70.0	**30.0**	8.0	48.1	25.9	38.0
KS4158	1061	---	---	97	**10.0**	112	173	61	73.3	**27.9**	8.2	**49.5**	**26.8**	37.4
BSX-6271	1013	---	---	93	**10.0**	108	171	62	75.0	56.7	7.9	**49.0**	25.9	38.1
Baldur	1007	---	---	92	**10.0**	111	174	62	76.7	**24.2**	8.8	48.8	23.2	39.3
DKW47-15	995	---	---	91	**10.0**	111	173	60	60.0	**33.7**	7.5	48.6	**26.5**	38.3
Sumner	931	---	---	85	**9.8**	109	171	59	43.3	**36.7**	8.3	**49.8**	**27.6**	38.0
Hybrisurf	914	---	---	83	**10.0**	112	172	60	33.3	53.7	7.8	48.9	23.2	**40.5**
KS3132	912	---	---	83	**10.0**	112	174	62	97.7	43.4	9.0	48.5	25.2	37.4
HyClass115W	900	---	---	82	7.3	110	172	60	8.2	46.7	8.4	**49.2**	**26.5**	38.7
CWH101D	896	---	---	82	**10.0**	110	170	57	88.0	53.3	7.2	**49.1**	24.2	38.5
BSX-6242	894	---	---	82	**10.0**	111	174	60	73.3	**36.7**	7.6	**50.0**	25.9	37.8
Dimension	891	---	---	81	**10.0**	109	173	58	48.2	**30.0**	7.2	48.7	23.7	**41.0**
KS3254	840	---	---	77	**10.0**	112	171	63	63.0	**30.0**	9.3	**49.5**	23.6	39.5
DKW45-10	805	---	---	73	**10.0**	108	168	52	93.0	70.0	7.1	48.6	25.7	38.9
CWH111	776	---	---	71	**10.0**	106	173	54	66.3	**33.7**	7.4	46.9	25.9	37.1
AAMU-33-07	768	---	---	70	**10.0**	109	169	60	94.7	67.9	8.0	48.5	**26.2**	35.8
DKW41-10	750	---	---	68	**9.5**	105	168	51	41.7	63.2	7.0	**50.3**	25.2	38.9

Table 9. Results for the 2009 National Winter Canola Variety Trial at Orange, VA

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	50% Bloom	Maturity	Plant Height	Lodging	Sclerotinia	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(d)	(d)	(in)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
HyClass110W	726	---	---	66	**9.8**	108	170	55	91.3	62.6	7.3	**49.2**	**26.4**	36.3
BSX-6406	725	---	---	66	**10.0**	111	174	61	70.0	53.4	8.6	48.0	25.8	38.0
DKW46-15	721	---	---	66	**10.0**	110	170	57	85.5	58.4	7.2	46.3	24.7	**40.4**
CWH633	692	---	---	63	9.3	111	172	59	50.0	53.2	8.2	48.5	26.0	37.8
KS4022	642	---	---	59	**10.0**	112	175	60	70.0	**36.7**	8.7	48.5	25.5	37.9
Virginia	599	---	---	55	**10.0**	109	169	60	92.7	73.4	7.2	**49.2**	**27.3**	34.9
AAMU-18-07	514	---	---	47	**10.0**	99	166	51	97.7	66.7	7.1	46.3	**26.2**	37.3
Mean	1095	---	---	---	9.9	110	172	60	69.8	40.4	8.0	49.0	25.3	38.4
CV	26	---	---	---	2.9	1	1	7	38.1	44.2	12.3	1.9	3.1	1.9
LSD (0.05)	455	---	---	---	0.5	2	3	6	43.2	29.1	1.6	1.5	1.5	1.5

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. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers. Maturity is recorded as the date after January 1 when 90% of plants reach mature color.

Petersburg, Virginia

Harbans Bhardwaj, Virginia State University
Planted: 10/8/2008 at 6 lb/a in 15-in. rows
Harvested: 6/26/2009
Herbicides: Prowl 1.5 pt/a
Insecticides: Karate
Irrigation: None
Previous Crop: White lupin
Soil Test: P=high, K=medium, pH=6.2
Fertilizer: 100-100-100 lb N-P-K fertilizer in spring

Soil Type: Abell sandy loam
Elevation: 15 ft Latitude: 37° 14'N
Comments:

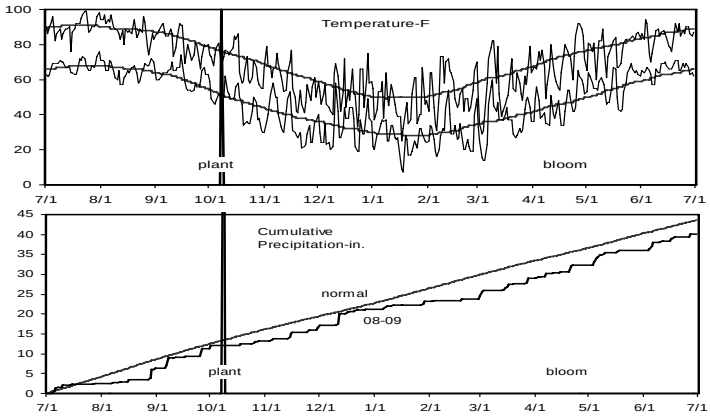


Table 10. Results for the 2009 National Winter Canola Variety Trial at Petersburg, VA

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(%)	(lb/bu)	(%)	(%)
Safran	**2044**	**1433**	1739	157	---	---	---	---	---	---	---	25.3	40.4
46W14	**1993**	550	1272	154	---	---	---	---	---	---	---	25.7	40.6
Flash	**1816**	776	1296	140	---	---	---	---	---	---	---	26.9	39.6
Kadore	**1702**	319	1010	131	---	---	---	---	---	---	---	26.1	38.6
CWH101D	**1692**	---	---	130	---	---	---	---	---	---	---	25.1	40.0
Virginia	**1661**	787	1224	128	---	---	---	---	---	---	---	28.1	37.5
CWH095D	**1648**	171	910	127	---	---	---	---	---	---	---	28.0	38.1
Hornet	**1583**	745	1164	122	---	---	---	---	---	---	---	25.2	40.3
KS3074	**1557**	436	997	120	---	---	---	---	---	---	---	27.0	39.1
BSX-501	**1555**	487	1021	120	---	---	---	---	---	---	---	27.1	39.5
Rossini	1504	---	---	116	---	---	---	---	---	---	---	**28.5**	39.3
Hybristar	1503	824	1163	116	---	---	---	---	---	---	---	26.6	40.2
HyClass154W	1493	532	1013	115	---	---	---	---	---	---	---	27.5	37.8
HyClass115W	1470	345	907	113	---	---	---	---	---	---	---	**28.5**	38.5
KS3254	1457	---	---	112	---	---	---	---	---	---	---	27.6	38.1
Visby	1447	---	---	111	---	---	---	---	---	---	---	26.9	38.4
Sitro	1446	799	1123	111	---	---	---	---	---	---	---	25.5	40.0
DKW47-15	1444	590	1017	111	---	---	---	---	---	---	---	27.9	38.6
45D03	1443	494	968	111	---	---	---	---	---	---	---	26.9	39.1
AAMU-33-07	1405	---	---	108	---	---	---	---	---	---	---	27.4	38.5
46W99	1376	371	874	106	---	---	---	---	---	---	---	25.4	40.9
Hybrilux	1373	---	---	106	---	---	---	---	---	---	---	**28.3**	38.0
BSX-6242	1343	---	---	103	---	---	---	---	---	---	---	27.9	38.6
ARC00005-2	1281	---	---	99	---	---	---	---	---	---	---	26.7	39.5
CWH111	1272	---	---	98	---	---	---	---	---	---	---	26.6	39.1
Hearty	1260	---	---	97	---	---	---	---	---	---	---	27.2	39.8
Hybrisurf	1257	777	1017	97	---	---	---	---	---	---	---	25.3	40.9
HyClass107W	1218	445	831	94	---	---	---	---	---	---	---	**28.6**	38.3
KS4158	1205	609	907	93	---	---	---	---	---	---	---	**28.3**	38.9
Kiowa	1203	446	825	93	---	---	---	---	---	---	---	27.4	38.0
BSX-6271	1191	---	---	92	---	---	---	---	---	---	---	26.9	39.9
KS4022	1165	513	839	90	---	---	---	---	---	---	---	27.5	38.5
KS4085	1160	506	833	89	---	---	---	---	---	---	---	27.0	38.8
AAMU-18-07	1153	---	---	89	---	---	---	---	---	---	---	26.0	40.2
Hybrigold	1146	839	993	88	---	---	---	---	---	---	---	27.1	38.6
DKW46-15	1146	426	786	88	---	---	---	---	---	---	---	26.2	**41.0**
BSX-6406	1131	---	---	87	---	---	---	---	---	---	---	27.3	38.6
Baldur	1130	398	764	87	---	---	---	---	---	---	---	25.7	39.1
ARC00024-2	1096	---	---	84	---	---	---	---	---	---	---	**28.5**	36.2
CWH633	1082	683	882	83	---	---	---	---	---	---	---	27.7	39.3
DKW41-10	1081	576	829	83	---	---	---	---	---	---	---	**29.7**	37.7
Dimension	1054	715	885	81	---	---	---	---	---	---	---	24.4	**42.3**
NPZ0604	1053	---	---	81	---	---	---	---	---	---	---	26.5	39.9
ARC2189-2	1013	---	---	78	---	---	---	---	---	---	---	27.3	38.5
HyClass110W	987	391	689	76	---	---	---	---	---	---	---	**28.4**	37.8

Table 10. Results for the 2009 National Winter Canola Variety Trial at Petersburg, VA

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(%)	(lb/bu)	(%)	(%)
ARC00004-2	942	---	---	73	---	---	---	---	---	---	---	27.3	38.3
Sumner	941	592	767	73	---	---	---	---	---	---	---	**28.4**	38.0
BSX-6131	937	---	---	72	---	---	---	---	---	---	---	27.8	38.9
DKW45-10	922	273	598	71	---	---	---	---	---	---	---	**28.4**	37.9
KS3132	792	442	617	61	---	---	---	---	---	---	---	26.8	39.1
Wichita	778	502	640	60	---	---	---	---	---	---	---	**28.4**	38.4
Kronos	773	477	625	59	---	---	---	---	---	---	---	27.5	37.6
Mean	1295	514	---	---	---	---	---	---	---	---	---	27.1	39.0
CV	24	38	---	---	---	---	---	---	---	---	---	3.4	2.1
LSD (0.05)	506	315	---	---	---	---	---	---	---	---	---	1.5	1.3

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

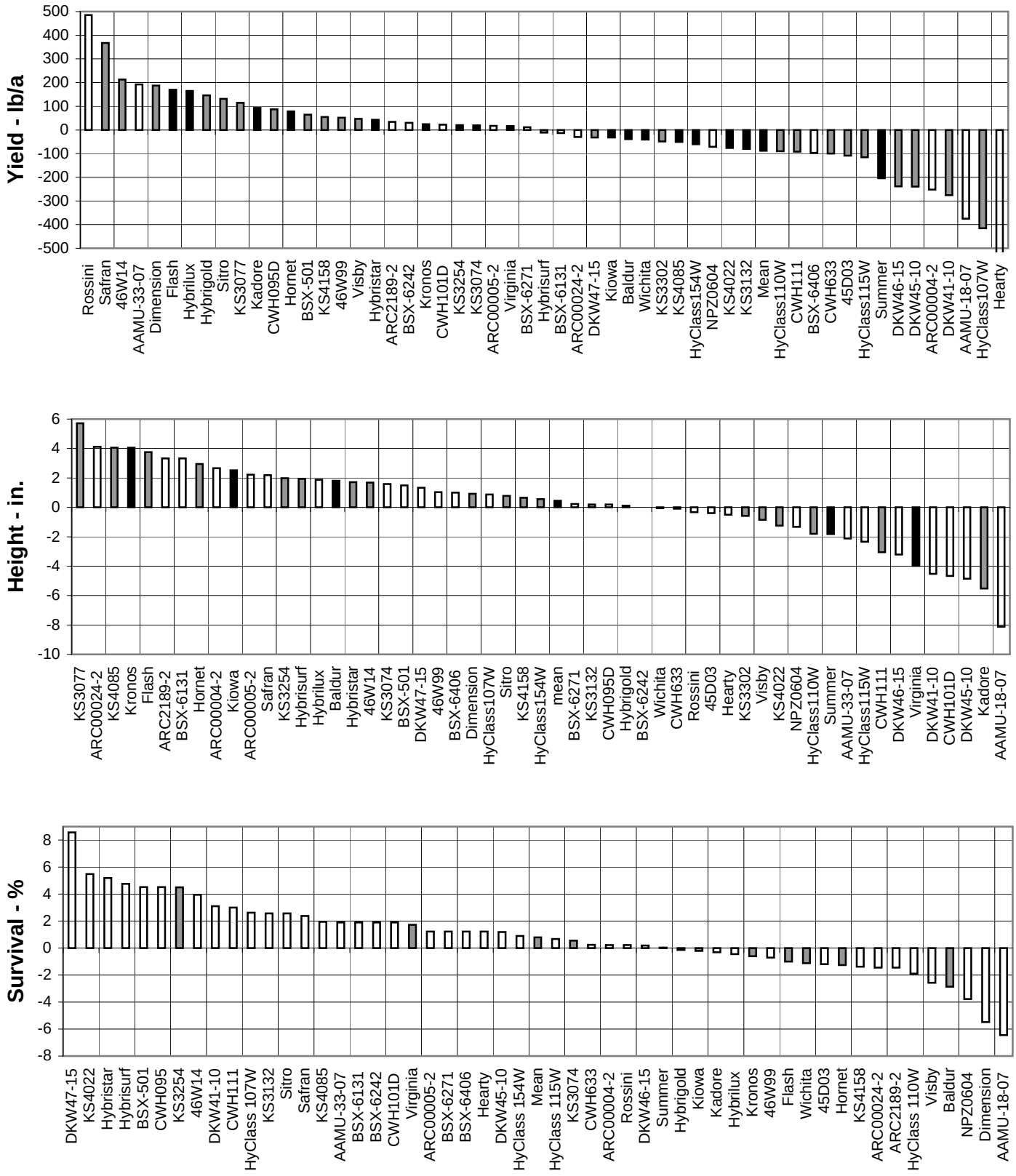
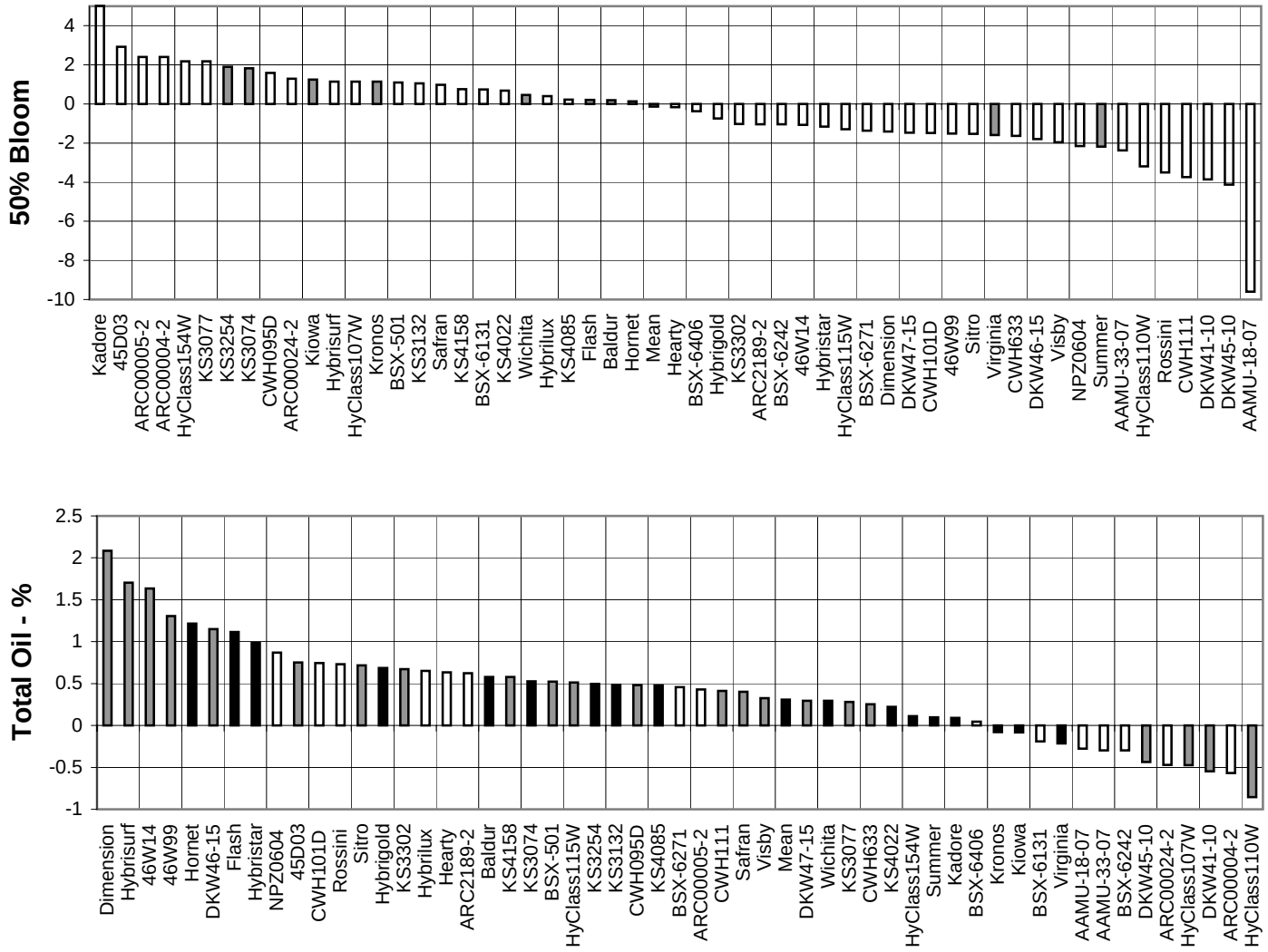


Figure 1. Southeast Winter Canola Summary, 2005-2009.



Note: Values are 5-year moving averages of the differences between each cultivar and the mean of Kronos, Virginia, and Wichita for yield (lb/a), winter survival (%), plant height (in.), 50% bloom date (days), and total oil content (%). The number of observations for each trait is represented by the different colored bars (shown at right).

Figure 1. Southeast Winter Canola Summary, 2005-2009 (continued).

Columbia City, Indiana

Shaun Casteel, Purdue University
Planted: 9/11/2008 at 5 lb/a in 6-in. rows
Harvested: 7/9/2009
Herbicides: Trifluralin 3.5 pt/a
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: P=39 ppm, K=116 ppm, pH=6.4
Fertilizer: 30-60-60 lb N-P-K fertilizer in fall
115-0-0 lb N-P-K fertilizer in spring
Soil Type: Haskins loam
Elevation: 837 ft Latitude: 41° 6'N
Comments:

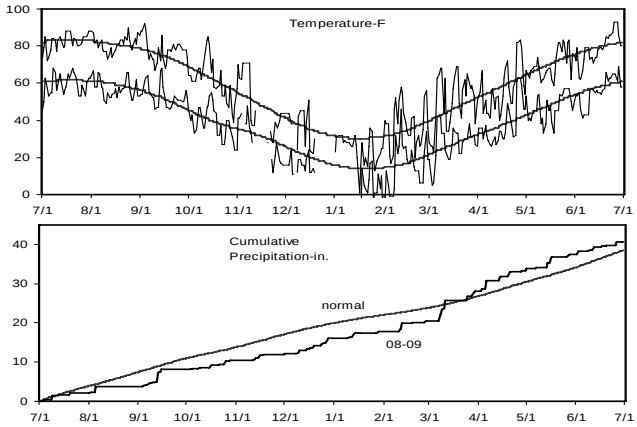


Table 11. Results for the 2009 National Winter Canola Variety Trial at Columbia City, IN

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Moist.	Test Weight[1]	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Safran	**2694**	**2194**	2444	130	---	---	---	50.0	6.6	62.2	19.8	42.8
CWH095D	**2522**	**2402**	2462	121	---	---	---	48.3	7.8	61.1	19.7	43.5
Kadore	**2478**	2055	2267	119	---	---	---	45.0	7.3	61.4	19.6	42.6
Hornet	**2456**	2071	2264	118	---	---	---	55.0	7.5	61.1	18.3	**44.5**
ARC00004-2	**2389**	---	---	115	---	---	---	51.3	7.5	61.1	20.3	42.6
Sitro	**2377**	**2287**	2332	114	---	---	---	50.3	8.0	60.1	19.2	43.4
Flash	**2363**	1445	1904	114	---	---	---	50.7	7.2	61.6	20.0	**43.7**
KS3077	2351	2049	2200	113	---	---	---	47.3	6.3	62.4	21.3	42.4
HyClass154W	2344	2028	2186	113	---	---	---	51.0	6.9	61.9	20.4	42.4
CWH101D	2331	---	---	112	---	---	---	47.3	5.7	63.1	19.3	42.2
Hybristar	2322	1777	2049	112	---	---	---	49.7	7.0	61.7	20.4	43.5
46W14	2309	---	---	111	---	---	---	51.0	7.4	61.6	19.2	**43.6**
Baldur	2304	2023	2163	111	---	---	---	49.7	6.7	62.1	19.3	42.9
Visby	2271	2062	2166	109	---	---	---	49.0	6.1	62.6	19.0	42.4
Sumner	2269	1885	2077	109	---	---	---	51.7	7.0	61.7	20.3	42.0
KS4158	2262	**2196**	2229	109	---	---	---	46.7	6.8	62.2	20.5	**44.1**
Rossini	2242	---	---	108	---	---	---	45.7	7.0	61.7	21.4	43.3
Wichita	2241	**2336**	2288	108	---	---	---	48.3	6.6	62.0	21.0	42.7
CWH111	2234	1033	1634	107	---	---	---	48.3	6.4	62.5	21.1	41.5
45D03	2219	---	---	107	---	---	---	45.7	7.2	61.5	18.8	43.5
Hybrisurf	2198	2107	2152	106	---	---	---	49.3	6.6	62.2	19.7	43.4
BSX-501	2196	**2169**	2182	106	---	---	---	48.7	6.9	62.0	21.7	42.8
NPZ0604	2188	---	---	105	---	---	---	49.3	7.8	60.8	18.2	**45.0**
BSX-6242	2180	---	---	105	---	---	---	47.7	8.5	60.0	20.3	43.2
Dimension	2172	1713	1943	104	---	---	---	48.0	8.6	59.6	19.5	**44.6**
KS3254	2160	**2307**	2234	104	---	---	---	51.7	7.2	61.8	20.2	42.7
ARC00024-2	2156	---	---	104	---	---	---	52.3	7.5	61.1	19.7	43.4
Kiowa	2129	2079	2104	102	---	---	---	51.0	7.5	61.1	20.4	43.2
KS3074	2087	**2146**	2116	100	---	---	---	50.0	7.7	61.1	21.1	42.2
KS3302	2070	**2251**	2161	100	---	---	---	51.7	7.0	61.9	20.7	**43.6**
Kronos	2025	2097	2061	97	---	---	---	52.0	7.2	61.6	19.9	42.9
Hybrilux	2011	---	---	97	---	---	---	50.7	7.5	61.2	20.1	**44.0**
46W99	1981	---	---	95	---	---	---	51.0	9.3	58.9	19.0	**44.0**
KS4085	1978	**2209**	2094	95	---	---	---	53.0	9.0	59.0	21.0	43.0
BSX-6131	1976	---	---	95	---	---	---	48.7	7.3	61.5	21.1	42.5
HyClass110W	1970	1592	1781	95	---	---	---	48.3	7.1	61.7	21.2	41.0
HyClass107W	1943	1702	1822	93	---	---	---	49.3	7.1	61.7	**23.0**	42.6
BSX-6406	1937	---	---	93	---	---	---	49.0	6.3	62.4	20.5	**43.8**
KS4022	1937	**2621**	2279	93	---	---	---	49.0	9.0	58.9	21.4	42.4
Hybrigold	1936	1674	1805	93	---	---	---	47.0	6.1	62.6	21.6	42.1
BSX-6271	1936	---	---	93	---	---	---	49.3	6.1	62.9	20.4	42.4
KS3132	1898	**2264**	2081	91	---	---	---	53.3	7.5	61.3	20.6	42.7
ARC00005-2	1884	---	---	91	---	---	---	48.7	6.7	62.2	20.5	42.1
Virginia	1883	1023	1453	91	---	---	---	42.7	7.3	61.2	21.2	41.1
AAMU-33-07	1800	---	---	87	---	---	---	43.7	7.9	60.8	21.7	40.9

Table 11. Results for the 2009 National Winter Canola Variety Trial at Columbia City, IN

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Moist.	Test Weight[1]	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
DKW47-15	1788	2067	1927	86	---	---	---	48.3	6.4	62.4	20.0	42.9
DKW46-15	1745	2072	1909	84	---	---	---	44.3	7.2	61.8	21.1	41.5
DKW45-10	1738	2007	1872	84	---	---	---	46.7	8.0	60.9	20.5	42.3
ARC2189-2	1711	---	---	82	---	---	---	49.0	9.0	59.3	21.1	42.2
CWH633	1637	**2138**	1887	79	---	---	---	47.7	7.5	61.4	20.1	42.1
DKW41-10	1637	2027	1832	79	---	---	---	48.0	8.3	60.5	**21.9**	41.1
AAMU-18-07	1486	---	---	71	---	---	---	43.3	7.3	61.5	20.6	41.2
HyClass115W	1470	**2301**	1885	71	---	---	---	48.0	10.2	57.4	21.7	41.8
Hearty	1450	---	---	70	---	---	---	47.3	10.8	55.9	19.2	**44.1**
Mean	2079	---	---	---	---	---	---	48.9	7.4	61.2	20.3	42.8
CV	10	---	---	---	---	---	---	5.0	11.8	1.8	3.3	2.1
LSD (0.05)	333	---	---	---	---	---	---	3.9	1.4	1.8	0.0	0.0

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. [1]A software malfunction in the harvest system computer overexaggerated test weights.

Vincennes, Indiana

Chuck Mansfield, Vincennes University
Planted: 9/19/2008 at 5 lb/a in 6-in. rows
Harvested: 6/24/2009
Herbicides: None
Insecticides: None
Irrigation: None
Previous Crop: Melons
Soil Test: P=121 lb/a, K=270 lb/a, pH=6.4
Fertilizer: 0-0-0 lb N-P-K fertilizer in fall
115-0-0 lb N-P-K fertilizer in spring
Soil Type: NA
Elevation: 446 ft Latitude: 38° 40'N
Comments:

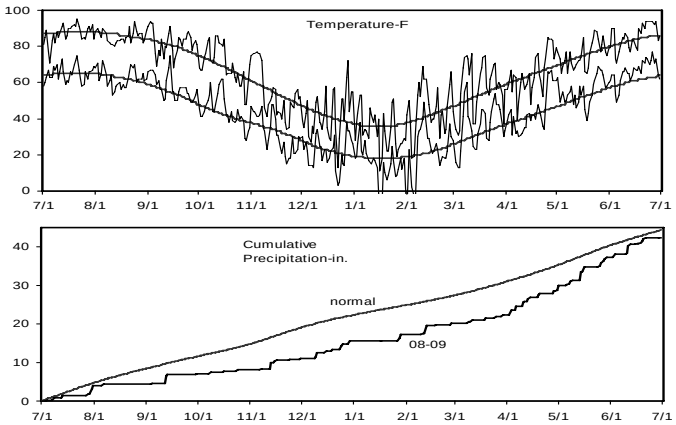


Table 12. Results for the 2009 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Hornet	**2785**	**1809**	2297	136	---	---	---	60.7	7.3	50.8	24.1	40.4
Sitro	**2722**	**1971**	2346	132	---	---	---	59.0	8.7	49.1	23.9	39.9
BSX-501	**2533**	**1723**	2128	123	---	---	---	61.0	7.4	50.4	**26.2**	38.7
Flash	**2526**	**1759**	2142	123	---	---	---	61.3	8.7	48.7	24.0	40.1
Visby	**2466**	**1738**	2102	120	---	---	---	57.7	6.9	51.4	23.2	40.6
NPZ0604	**2454**	---	---	119	---	---	---	58.7	7.7	50.4	23.2	**41.8**
Safran	2331	---	---	113	---	---	---	58.3	8.4	48.9	25.5	38.7
Baldur	2330	1330	1830	113	---	---	---	59.7	7.5	50.7	23.6	39.6
CWH095D	2309	**1610**	1960	112	---	---	---	54.0	6.8	51.1	25.2	38.4
Kadore	2296	**1853**	2074	112	---	---	---	55.0	7.4	50.5	24.5	37.6
CWH111	2263	1228	1746	110	---	---	---	53.7	7.8	50.5	25.0	**42.0**
KS3077	2242	1217	1729	109	---	---	---	58.7	7.7	50.1	**26.1**	39.6
KS3254	2230	1459	1845	109	---	---	---	59.7	8.0	49.7	24.8	38.8
CWH101D	2230	---	---	109	---	---	---	51.0	7.4	50.3	25.1	39.1
KS4158	2192	**1661**	1926	107	---	---	---	57.7	7.3	50.6	25.0	40.1
HyClass110W	2189	1115	1652	107	---	---	---	52.7	8.0	49.8	**25.8**	38.7
DKW45-10	2185	1014	1599	106	---	---	---	53.3	7.0	51.1	25.3	38.7
KS3302	2179	1458	1818	106	---	---	---	58.3	8.2	50.2	25.2	40.2
BSX-6271	2174	---	---	106	---	---	---	58.3	7.7	50.7	**26.0**	39.5
BSX-6131	2171	---	---	106	---	---	---	60.3	8.8	48.6	**27.0**	38.3
Wichita	2134	1249	1691	104	---	---	---	58.0	6.8	51.4	**25.8**	38.6
Hybrilux	2131	---	---	104	---	---	---	60.3	7.3	50.9	24.5	**41.2**
ARC2189-2	2104	---	---	102	---	---	---	61.3	9.6	47.1	25.2	39.0
AAMU-33-07	2091	---	---	102	---	---	---	56.3	7.5	50.5	23.6	39.9
Virginia	2086	**1783**	1935	102	---	---	---	53.0	7.1	50.9	25.4	38.8
BSX-6406	2082	---	---	101	---	---	---	59.3	8.8	48.8	**25.9**	39.6
Sumner	2082	1313	1697	101	---	---	---	58.7	8.0	50.2	25.5	38.7
Hybrigold	2081	**1729**	1905	101	---	---	---	58.0	8.1	49.7	25.0	40.0
KS4022	2075	**1840**	1958	101	---	---	---	58.7	7.9	49.5	**26.5**	38.9
DKW41-10	2049	683	1366	100	---	---	---	51.0	6.7	51.2	**26.0**	38.7
Hybrisurf	2040	1315	1677	99	---	---	---	56.7	7.0	50.7	24.5	40.5
KS3132	2014	1429	1722	98	---	---	---	59.7	8.0	50.3	**25.8**	38.9
BSX-6242	2012	---	---	98	---	---	---	56.3	7.1	51.2	25.1	39.7
KS3074	2002	1458	1730	97	---	---	---	59.3	7.2	50.5	**25.7**	38.9
46W14	1989	---	---	97	---	---	---	56.3	7.1	50.8	23.4	**41.7**
Kronos	1977	1392	1685	96	---	---	---	60.7	8.3	48.7	23.9	38.9
ARC00005-2	1973	---	---	96	---	---	---	57.3	9.5	47.2	25.0	39.0
Rossini	1958	---	---	95	---	---	---	52.0	7.1	51.2	25.4	40.3
CWH633	1949	1334	1642	95	---	---	---	58.0	7.1	50.8	**26.0**	38.7
DKW47-15	1924	1317	1621	94	---	---	---	57.3	6.1	51.6	**26.5**	38.1
45D03	1903	---	---	93	---	---	---	51.3	8.1	49.8	25.0	37.8
KS4085	1901	1218	1560	93	---	---	---	61.0	9.3	48.1	**26.5**	38.0
Kiowa	1887	1503	1695	92	---	---	---	61.0	9.1	48.2	**26.0**	38.0
Dimension	1875	1211	1543	91	---	---	---	57.0	9.2	47.7	23.3	**41.5**
Hybristar	1865	1468	1666	91	---	---	---	56.3	7.9	49.8	24.7	39.6
HyClass154W	1847	1498	1672	90	---	---	---	60.3	8.4	49.4	25.4	38.8
HyClass115W	1833	1154	1494	89	---	---	---	57.0	6.8	51.0	24.3	**41.3**

Table 12. Results for the 2009 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
ARC00024-2	1826	---	---	89	---	---	---	62.0	7.4	50.7	25.5	37.7
ARC00004-2	1815	---	---	88	---	---	---	61.3	8.8	48.3	**25.7**	38.1
DKW46-15	1745	1202	1474	85	---	---	---	55.0	7.6	51.3	24.3	**41.3**
HyClass107W	1679	1429	1554	82	---	---	---	54.7	6.4	51.9	**26.9**	38.8
46W99	1440	---	---	70	---	---	---	57.7	8.1	49.3	23.7	39.8
AAMU-18-07	1061	---	---	52	---	---	---	48.0	8.8	48.9	24.7	39.0
Hearty	706	---	---	34	---	---	---	52.7	10.0	46.8	25.3	39.1
Mean	2055	1414	---	---	---	---	---	57.3	7.8	49.9	25.1	39.5
CV	13	20	---	---	---	---	---	3.6	17.2	3.7	3.3	1.8
LSD (0.05)	446	456	---	---	---	---	---	3.3	NS	NS	0.0	0.0

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

Russellville, Kentucky

John Hagan, Miles Enterprises
Brian Caldbeck
Planted: 10/2/2008 at 4 lb/a in 7.5-in. rows
Harvested: 6/29/2009
Herbicides: 1.5 pt/a Trifluralin
Insecticides: Warrior
Fungicides: Proline
Irrigation: None
Previous Crop: Corn
Soil Test: NA
Fertilizer: 27-69-90-10 lb N-P-K-S fertilizer in fall
140-0-0-0 lb N-P-K-S fertilizer in spring
Soil Type: Pembroke silt loam
Elevation: 626 ft Latitude: 36° 42'N
Comments:

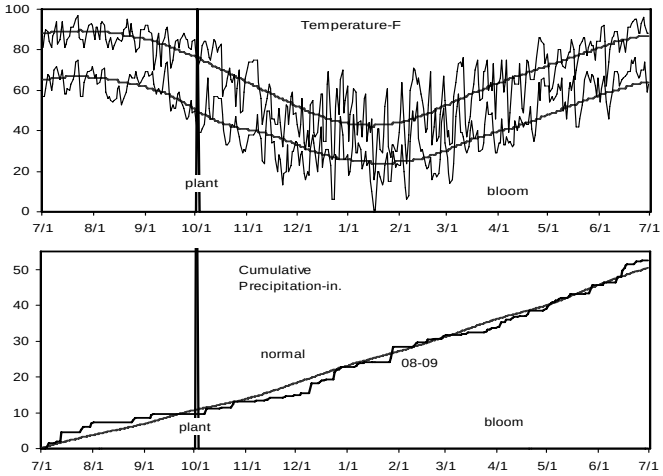


Table 13. Results for the 2009 National Winter Canola Variety Trial at Russellville, KY

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Moisture[1]	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(%)	(%)
Safran	**3835**	4250	4043	176	---	---	---	6.5	25.1	39.9
Flash	**3480**	---	---	160	---	---	---	6.9	24.6	40.4
Sitro	**3380**	4485	3933	155	---	---	---	6.5	25.2	39.7
Hybrigold	**3320**	4520	3920	152	---	---	---	6.5	26.1	39.6
Rossini	**3235**	---	---	149	---	---	---	5.9	25.9	40.1
BSX-501	**3105**	3785	3445	143	---	---	---	6.5	**27.2**	38.8
Hornet	**3065**	5365	4215	141	---	---	---	5.7	23.8	41.3
BSX-6131	**3015**	---	---	138	---	---	---	7.5	**27.4**	38.0
ARC2189-2	**2955**	---	---	136	---	---	---	6.1	26.4	38.9
BSX-6271	**2905**	---	---	133	---	---	---	6.9	**26.8**	39.2
KS3254	**2785**	4235	3510	128	---	---	---	8.1	26.0	39.3
BSX-6406	**2755**	---	---	126	---	---	---	6.8	**26.9**	38.9
ARC00004-2	**2625**	---	---	121	---	---	---	6.6	**27.2**	37.7
ARC00005-5	**2600**	---	---	119	---	---	---	7.9	25.2	39.3
ARC00024-2	**2570**	---	---	118	---	---	---	6.8	26.0	37.8
KS4158	**2560**	4000	3280	118	---	---	---	6.7	25.6	39.6
HyClass154W	**2450**	3940	3195	112	---	---	---	6.1	26.6	37.9
46W14	**2430**	3950	3190	112	---	---	---	6.4	24.3	40.9
45D03	**2430**	3775	3103	112	---	---	---	6.9	25.1	40.0
46W99	**2400**	4260	3330	110	---	---	---	6.0	25.0	40.3
Hybrilux	**2365**	---	---	109	---	---	---	6.4	24.7	**41.7**
KS4022	**2330**	3995	3163	107	---	---	---	10.8	**27.0**	38.8
Hybrisurf	**2315**	3655	2985	106	---	---	---	5.9	24.5	41.2
Kadore	**2255**	3450	2853	104	---	---	---	6.8	25.5	39.3
DKW41-10	**2225**	2515	2370	102	---	---	---	6.0	**27.3**	39.2
Kiowa	**2190**	3595	2893	101	---	---	---	5.9	26.4	38.3
AAMU-33-07	**2165**	---	---	99	---	---	---	6.3	26.1	38.9
KS3077	2135	3865	3000	98	---	---	---	6.6	**27.0**	38.7
Sumner	2095	4195	3145	96	---	---	---	11.4	26.1	38.6
KS3302	2080	4310	3195	96	---	---	---	8.4	26.4	38.7
KS4085	2015	3695	2855	93	---	---	---	6.4	**26.8**	39.0
DKW46-15	1995	3125	2560	92	---	---	---	5.5	25.3	**41.5**
Virginia	1985	4370	3178	91	---	---	---	8.9	**26.9**	38.4
HyClass115W	1970	3410	2690	90	---	---	---	7.3	**26.9**	39.6
Wichita	1965	3850	2908	90	---	---	---	6.9	**27.6**	38.4
KS3074	1945	4055	3000	89	---	---	---	7.9	26.6	38.5
Kronos	1875	3430	2653	86	---	---	---	6.4	24.0	39.6
Baldur	1875	3460	2668	86	---	---	---	7.6	24.4	39.4
Visby	1790	3305	2548	82	---	---	---	6.9	24.3	40.0
BSX-6242	1790	---	---	82	---	---	---	6.9	**27.1**	38.9
HyClass110W	1645	3920	2783	76	---	---	---	6.0	26.5	39.2
AAMU-18-07	1625	---	---	75	---	---	---	6.9	25.3	40.5
KS3132	1615	3875	2745	74	---	---	---	6.9	26.0	38.4

Table 13. Results for the 2009 National Winter Canola Variety Trial at Russellville, KY

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Moisture[1]	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(%)	(%)
DKW45-10	1600	2980	2290	73	---	---	---	6.9	25.7	40.0
Hybristar	1600	4585	3093	73	---	---	---	6.9	25.6	39.2
Dimension	1575	4695	3135	72	---	---	---	6.9	23.3	**42.6**
CWH633	1400	---	---	64	---	---	---	6.9	26.6	39.3
DKW47-15	1400	2800	2100	64	---	---	---	6.9	**27.4**	38.3
CWH095D	1325	---	---	61	---	---	---	6.9	25.5	39.2
CWH111	1165	2900	2033	53	---	---	---	6.9	25.6	40.3
NPZ0604	1040	---	---	48	---	---	---	6.9	24.6	40.9
HyClass107W	975	2515	1745	45	---	---	---	6.9	**26.8**	39.6
Hearty	775	---	---	36	---	---	---	6.9	26.5	39.5
CWH101D	600	---	---	28	---	---	---	6.9	25.8	39.0
Mean	2178	3760	---	---	---	---	---	6.9	25.9	39.5
CV	26	1050	---	---	---	---	---	9.6	2.1	1.7
LSD (0.05)	908	17	---	---	---	---	---	1.1	0.9	1.1

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. [1]Yields adjusted to 10% moisture.

Custar, Ohio

Edwin Lentz, The Ohio State University
Planted: 9/3/2008 at 7.1 lb/a in 7-in. rows
Harvested: 7/10/2009
Herbicides: Assure II
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: P=29 ppm, K=169 ppm, pH=6.0
Fertilizer: 78-0-0 lb N-P-K fertilizer in fall
100-0-0 lb N-P-K fertilizer in spring
Soil Type: Hoytville clay
Elevation: 797 ft Latitude: 41° 13'N
Comments:

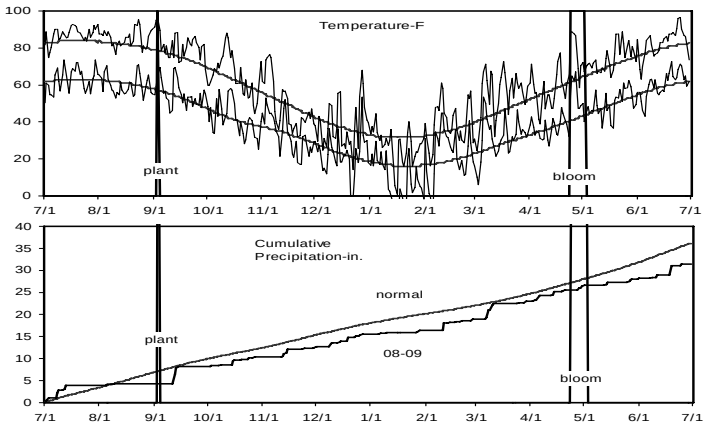


Table 14. Results for the 2009 National Winter Canola Variety Trial at Custar, OH

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(d)	(in)	(%)	(%)
CWH101D	**4850**	---	---	120	99	---	---	89	117	41	---	---
Kadore	**4810**	---	---	119	99	---	---	90	117	38	---	---
46W14	**4650**	---	---	115	97	---	---	95	115	39	---	---
CWH095D	**4644**	---	---	115	100	---	---	89	117	42	---	---
Safran	**4606**	---	---	114	97	---	---	92	116	42	---	---
BSX-6242	**4538**	---	---	112	99	---	---	89	117	44	---	---
BSX-6271	**4515**	---	---	112	99	---	---	90	116	40	---	---
BSX-6406	**4438**	---	---	110	99	---	---	77	117	42	---	---
Hybrisurf	**4415**	---	---	109	97	---	---	93	117	39	---	---
KS3132	**4397**	---	---	109	99	---	---	90	118	45	---	---
Hybrilux	**4376**	---	---	108	97	---	---	91	115	42	---	---
NPZ0604	**4360**	---	---	108	98	---	---	93	115	36	---	---
KS4158	**4335**	---	---	107	98	---	---	91	116	41	---	---
45D03	**4303**	---	---	106	100	---	---	87	117	41	---	---
Sitro	**4288**	---	---	106	99	---	---	90	116	40	---	---
Kronos	**4278**	---	---	106	98	---	---	88	117	42	---	---
Hybristar	**4278**	---	---	106	98	---	---	93	116	38	---	---
KS3074	4267	---	---	106	100	---	---	92	117	42	---	---
AAMU-33-07	4255	---	---	105	98	---	---	82	116	36	---	---
BSX-501	4235	---	---	105	99	---	---	85	118	46	---	---
KS3254	4184	---	---	104	99	---	---	95	118	42	---	---
Baldur	4174	---	---	103	99	---	---	89	116	40	---	---
ARC00005-2	4167	---	---	103	99	---	---	91	117	41	---	---
Visby	4162	---	---	103	98	---	---	86	116	41	---	---
ARC00004-2	4156	---	---	103	98	---	---	92	121	45	---	---
46W99	4144	---	---	103	97	---	---	91	115	38	---	---
Dimension	4118	---	---	102	99	---	---	88	116	39	---	---
HyClass154W	4106	---	---	102	99	---	---	91	117	41	---	---
Rossini	4085	---	---	101	99	---	---	90	115	39	---	---
Kiowa	4056	---	---	100	99	---	---	94	117	44	---	---
KS3077	4047	---	---	100	100	---	---	89	117	42	---	---
Hornet	4001	---	---	99	98	---	---	91	117	44	---	---
ARC2189-2	3957	---	---	98	98	---	---	92	117	43	---	---
Wichita	3886	---	---	96	99	---	---	89	116	41	---	---
Virginia	3876	---	---	96	99	---	---	91	116	34	---	---
ARC00024-2	3868	---	---	96	99	---	---	88	122	42	---	---
Flash	3850	---	---	95	100	---	---	88	117	42	---	---
DKW45-10	3821	---	---	95	99	---	---	90	117	38	---	---
Hybrigold	3801	---	---	94	99	---	---	90	120	39	---	---
AAMU-18-07	3750	---	---	93	98	---	---	92	115	35	---	---
KS4022	3731	---	---	92	98	---	---	92	117	42	---	---
Sumner	3729	---	---	92	99	---	---	93	117	39	---	---
BSX-6131	3707	---	---	92	99	---	---	92	119	42	---	---
DKW47-15	3511	---	---	87	98	---	---	91	117	39	---	---
CWH633	3464	---	---	86	99	---	---	89	117	38	---	---

Table 14. Results for the 2009 National Winter Canola Variety Trial at Custar, OH

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(d)	(in)	(%)	(%)
DKW41-10	3408	---	---	84	99	---	---	91	116	38	---	---
HyClass107W	3385	---	---	84	100	---	---	88	117	40	---	---
KS4085	3236	---	---	80	100	---	---	89	117	39	---	---
KS3302	3230	---	---	80	99	---	---	86	117	41	---	---
CWH111	2944	---	---	73	99	---	---	90	115	35	---	---
DKW46-15	2771	---	---	69	100	---	---	92	117	35	---	---
Mean	4042	---	---	---	99	---	---	90	117	40	---	---
CV	9	---	---	---	2	---	---	6	1	6	---	---
LSD (0.05)	579	---	---	---	NS	---	---	NS	1.7	4	---	---

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

Edwin Lentz, The Ohio State University
Planted: 9/9/2008 at 7.1 lb/a in 7-in. rows
Harvested: 7/12/2009
Herbicides: Assure II
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: P=79 ppm, K=120 ppm, pH=6.8
Fertilizer: 90-0-0 lb N-P-K fertilizer in fall
100-0-0 lb N-P-K fertilizer in spring
Soil Type: Coldwood fine sandy loam
Elevation: 636 ft Latitude: 41° 21'N
Comments:

Fremont, Ohio

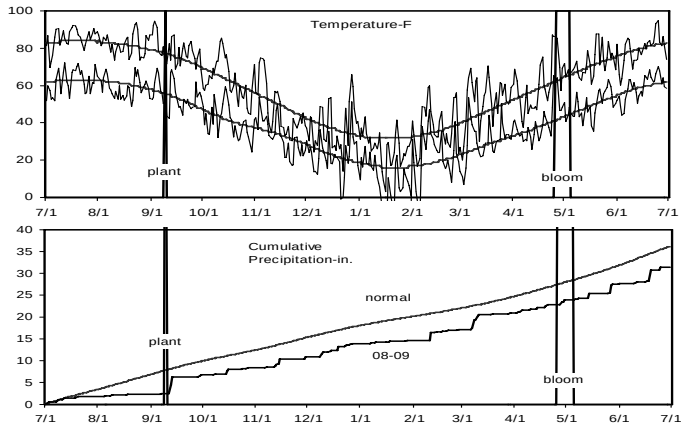


Table 15. Results for the 2009 National Winter Canola Variety Trial at Fremont, OH

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(d)	(in)	(%)	(%)
Sitro	**3341**	**4078**	3709	134	98	94	96	**88**	117	47	20.3	43.3
Hornet	**3206**	**3965**	3586	129	97	90	94	**87**	117	47	19.5	**44.2**
Hybrisurf	**3059**	**3650**	3355	123	96	88	92	**92**	117	45	20.2	**44.1**
Safran	**3043**	2913	2978	122	96	94	95	**87**	117	44	20.4	43.7
46W14	**2959**	---	---	119	91	---	---	**89**	116	43	20.7	42.7
Wichita	**2882**	3490	3186	116	96	93	95	**91**	117	46	**22.8**	41.7
Hybristar	**2874**	**3656**	3265	115	96	91	94	**89**	117	44	**22.0**	42.1
BSX-501	**2854**	---	---	115	95	---	---	84	117	48	**22.9**	41.5
Flash	**2805**	3420	3113	113	90	96	93	86	117	44	20.3	**44.5**
NPZ0604	**2762**	---	---	111	95	---	---	**91**	116	42	19.7	**45.0**
Baldur	2608	3355	2981	105	92	91	92	**91**	116	44	20.4	43.1
BSX-6271	2574	---	---	103	95	---	---	**88**	117	45	**22.3**	43.0
ARC00004-2	2545	---	---	102	97	---	---	**91**	123	49	21.5	39.3
KS3132	2502	---	---	101	96	---	---	**89**	118	46	21.2	42.5
BSX-6406	2502	---	---	101	98	---	---	**89**	117	47	**22.2**	42.1
Dimension	2499	2930	2715	100	97	92	94	**86**	116	45	19.3	**45.4**
HyClass154W	2497	---	---	100	96	---	---	**89**	117	45	21.9	41.4
AAMU-33-07	2488	---	---	100	97	---	---	**88**	117	42	21.8	41.2
Virginia	2463	2868	2665	99	98	88	93	**88**	117	39	21.7	42.9
Kiowa	2453	2636	2544	99	97	94	95	**89**	117	47	21.5	42.0
Visby	2435	---	---	98	96	---	---	76	116	46	20.3	43.1
Hybrilux	2427	---	---	98	94	---	---	79	117	49	21.7	43.6
Kadore	2402	3270	2836	97	88	96	92	**87**	120	42	21.1	42.1
KS3074	2397	2793	2595	96	97	97	97	**88**	117	46	21.6	43.3
45D03	2374	---	---	95	97	---	---	**89**	117	42	19.7	**44.4**
ARC2189-2	2334	---	---	94	92	---	---	**86**	117	49	**22.2**	42.6
KS3254	2331	---	---	94	85	---	---	**89**	119	44	21.7	42.1
BSX-6131	2299	---	---	92	96	---	---	**90**	117	47	21.5	42.5
Hybrigold	2268	2972	2620	91	83	95	89	**86**	117	45	21.1	43.0
Sumner	2247	2866	2557	90	95	91	93	84	116	43	**23.3**	42.7
KS4085	2221	---	---	89	94	---	---	**87**	116	46	21.9	42.9
BSX-6242	2216	---	---	89	83	---	---	82	117	47	**22.4**	42.5
ARC00024-2	2209	---	---	89	90	---	---	83	125	52	**22.2**	41.3
ARC00005-2	2123	---	---	85	91	---	---	**88**	119	47	21.5	42.9
KS4158	2071	---	---	83	98	---	---	**88**	117	42	20.8	**43.7**
KS4022	2060	---	---	83	91	---	---	83	117	44	21.9	42.4
Kronos	1964	3337	2651	79	95	92	94	82	117	48	20.7	40.9
46W99	1922	---	---	77	96	---	---	85	116	45	20.3	43.4
AAMU-18-07	1845	---	---	74	96	---	---	**91**	116	35	21.6	42.4
Mean	2489	3128	---	---	94	---	---	87	117	45	21.3	42.8
CV	15	11	---	---	6	---	---	4	1	6	3.2	2.3
LSD (0.05)	621	461	---	---	NS	---	---	6	2	4	1.4	2.0

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

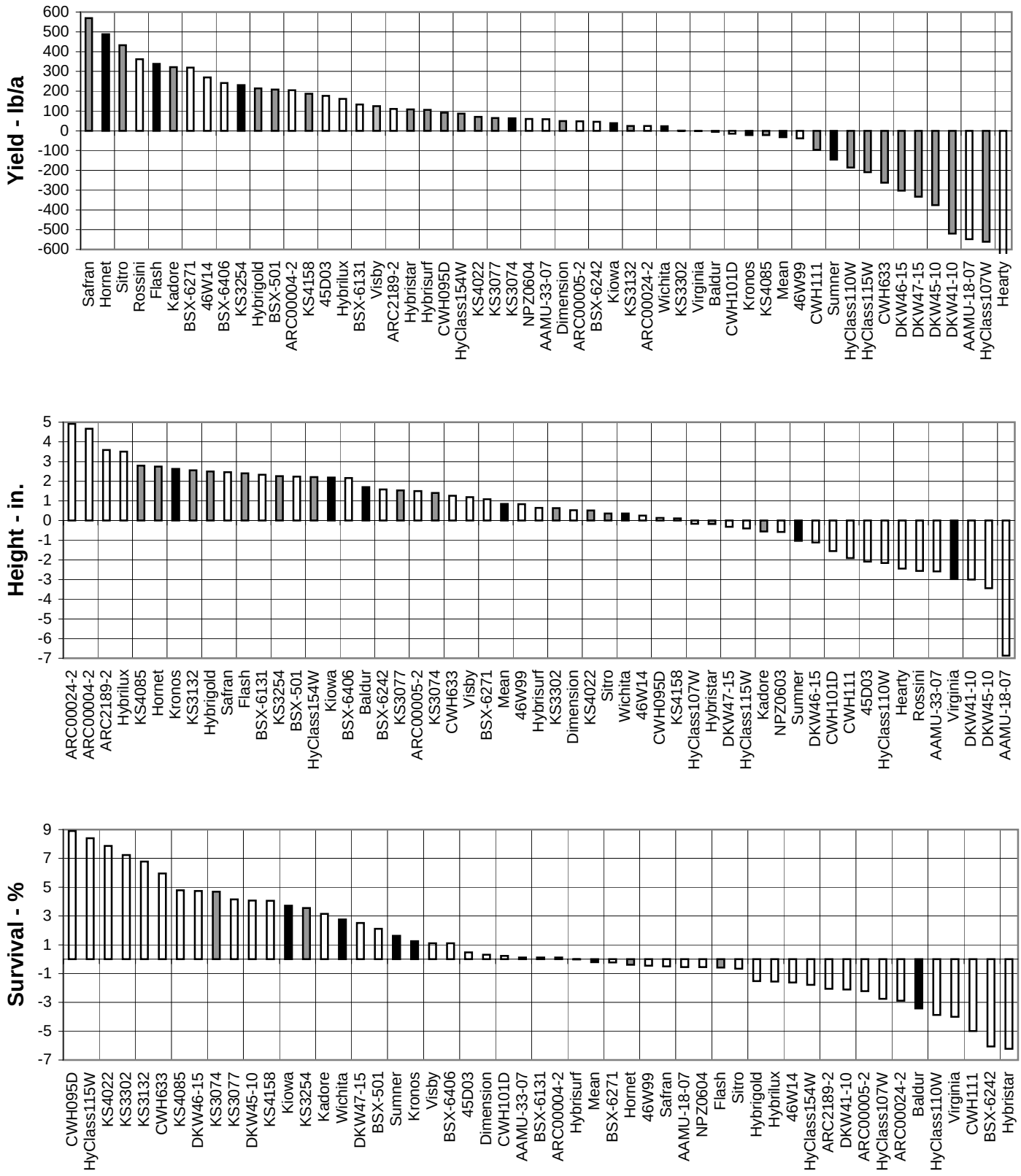
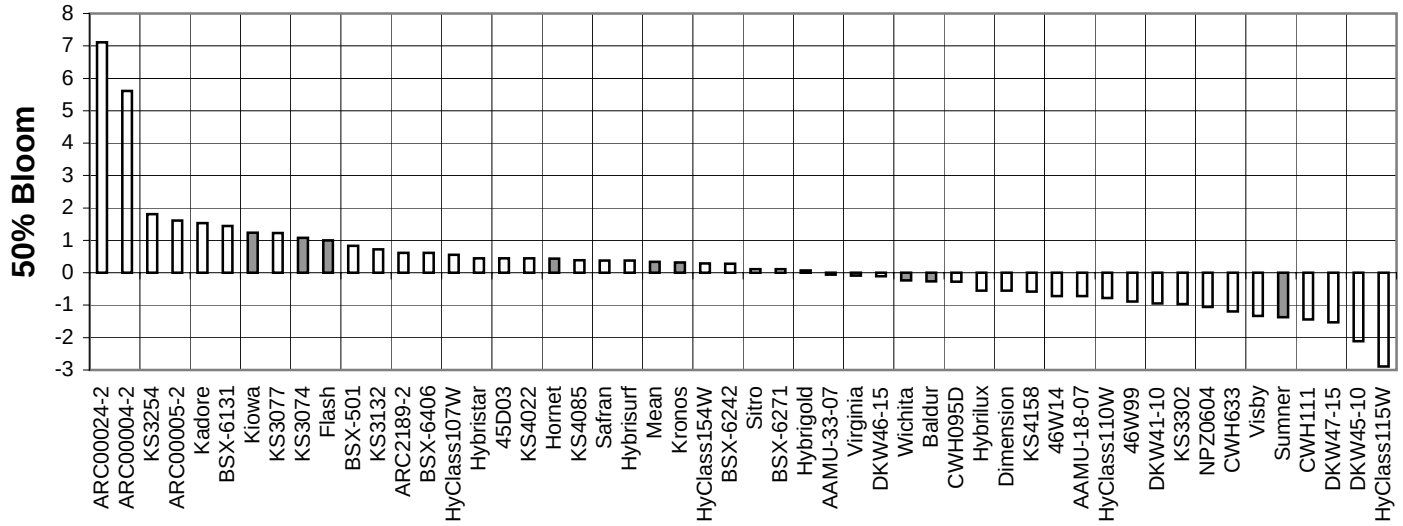
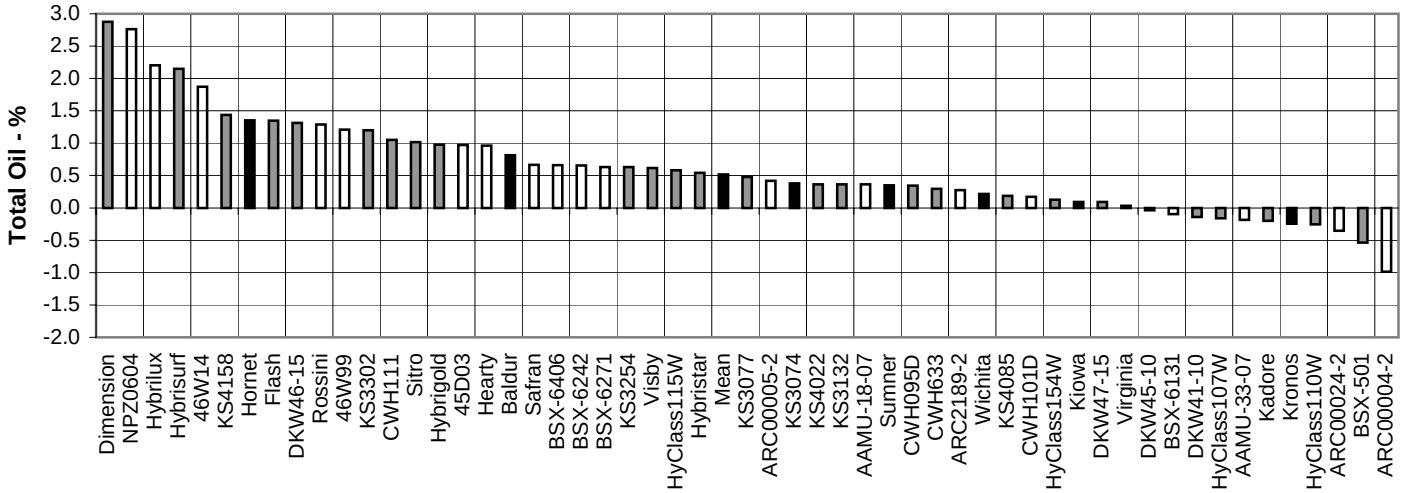


Figure 2. Midwest Winter Canola Summary, 2005-2009.





Note: Values are 5-year moving averages of the differences between each cultivar and the mean of Kronos, Virginia, and Wichita for yield (lb/a), winter survival (%), plant height (in.), 50% bloom date (days), and total oil content (%). The number of observations for each trait is represented by the different colored bars (shown at right).

Figure 2. Midwest Winter Canola Summary, 2005-2009 (continued).

Akron, Colorado

Jerry Johnson and Jean-Nicholas Enjalbert, Colorado State University

Planted: 8/26/2008 at 7 lb/a in 10-in. rows
Harvested: 7/26/2009
Herbicides: Sonalan
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: NA
Fertilizer: 80-0-0 lb N-P-K fertilizer in fall

Soil Type: Weld silt loam
Elevation: 4300 ft Latitude: 40° 09'N
Comments:

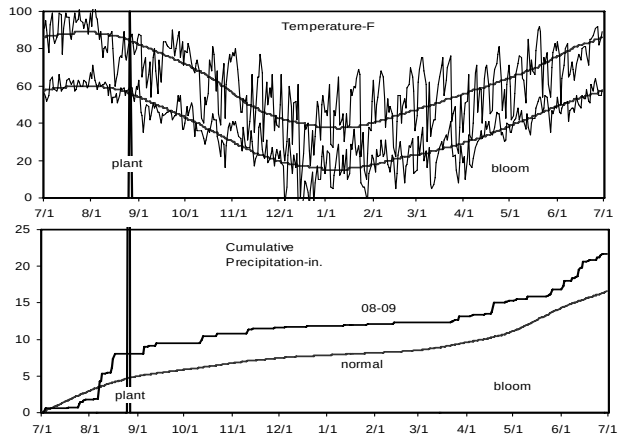


Table 16. Results for the 2009 National Winter Canola Variety Trial at Akron, CO

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Plant Height	Shatter	Moisture	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(plants/3-ft row)	(in)	(%)	(%)	(%)	(%)
Kronos	**1194**	---	---	167	31	---	---	22	35	13	9.2	---	---
Hornet	**1093**	---	---	153	47	---	---	22	34	17	9.7	---	---
NPZ0604	993	---	---	139	27	---	---	39	32	13	9.3	---	---
KS4022	948	---	---	133	41	---	---	26	34	13	8.5	---	---
Safran	927	---	---	130	41	---	---	25	37	10	8.9	---	---
Visby	847	---	---	119	42	---	---	22	34	10	8.5	---	---
Wichita	828	---	---	116	28	---	---	40	32	13	9.1	---	---
BSX-501	827	---	---	116	30	---	---	42	35	17	6.8	---	---
BSX-6406	781	---	---	109	34	---	---	36	31	17	8.4	---	---
Kiowa	779	---	---	109	27	---	---	35	35	13	9.4	---	---
Sitro	740	---	---	104	22	---	---	32	36	13	10.2	---	---
KS4158	732	---	---	103	35	---	---	36	33	17	9.4	---	---
KS4085	715	---	---	100	34	---	---	34	35	13	9.7	---	---
Sumner	711	---	---	100	24	---	---	28	36	13	10.3	---	---
CWH111	710	---	---	99	48	---	---	23	32	10	11.4	---	---
BSX-6271	706	---	---	99	34	---	---	33	34	17	8.4	---	---
HyClass107W	702	---	---	98	23	---	---	37	37	10	10.7	---	---
CWH633	673	---	---	94	36	---	---	33	36	13	11.6	---	---
Virginia	644	---	---	90	27	---	---	37	35	13	10.1	---	---
HyClass154W	641	---	---	90	32	---	---	33	33	10	11.6	---	---
Baldur	628	---	---	88	19	---	---	35	35	10	9.7	---	---
KS3254	628	---	---	88	20	---	---	47	30	13	11.7	---	---
Dimension	600	---	---	84	31	---	---	21	35	10	11.6	---	---
BSX-6242	576	---	---	81	54	---	---	22	30	10	11.7	---	---
DKW47-15	552	---	---	77	29	---	---	38	34	13	13.0	---	---
BSX-6131	494	---	---	69	20	---	---	45	35	10	10.1	---	---
DKW45-10	428	---	---	60	19	---	---	30	37	10	14.2	---	---
DKW46-15	417	---	---	58	19	---	---	36	29	10	13.5	---	---
Flash	234	---	---	33	21	---	---	24	37	10	16.0	---	---
DKW41-10	229	---	---	32	14	---	---	41	33	10	16.2	---	---
Mean	699	---	---	---	30	---	---	32	34	12	10.6	---	---
CV	27	---	---	---	45	---	---	25	8	39	19.3	---	---
LSD (0.05)	176	---	---	---	NS	---	---	13	NS	NS	3	---	---

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

Akron, Colorado

Jerry Johnson and Jean-Nicholas Enjalbert, Colorado State University

Planted: 8/26/2008 at 7 lb/a in 10-in. rows
Harvested: 7/26/2009
Herbicides: Sonalan
Insecticides: None
Irrigation: 2 in.
Previous Crop: Wheat
Soil Test: NA
Fertilizer: 80-0-0 lb N-P-K fertilizer in fall

Soil Type: Weld silt loam
Elevation: 4300 ft Latitude: 40° 09'N
Comments:

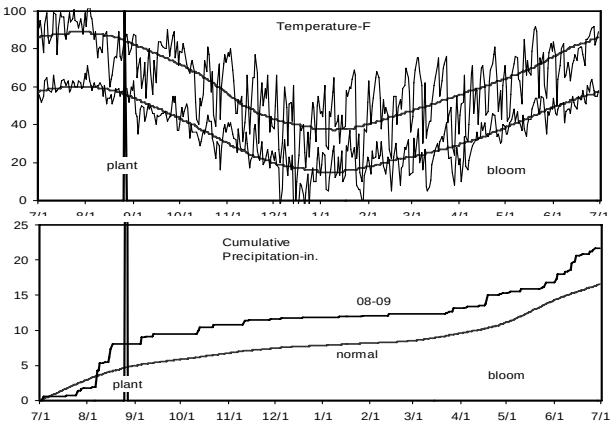


Table 17. Results for the 2009 National Winter Canola Variety Trial at Akron, CO

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Moisture	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(plants/3-ft row)	(%)	(%)	(%)
Safran	**2006**	---	---	129	34	---	---	30	---	25.2	**37.6**
Visby	**1940**	---	---	125	57	---	---	17	---	25.6	**36.5**
Hornet	**1854**	---	---	119	44	---	---	24	---	25.7	**36.4**
Baldur	**1837**	---	---	118	34	---	---	26	---	25.4	35.7
NPZ0604	**1832**	---	---	118	38	---	---	31	---	23.8	**38.5**
Kronos	**1801**	---	---	116	48	---	---	20	---	25.2	35.5
KS4085	**1797**	---	---	116	40	---	---	30	---	26.1	**36.3**
KS4158	1778	---	---	115	31	---	---	40	---	26.4	**37.0**
KS3254	1743	---	---	112	24	---	---	42	---	26.6	36.0
HyClass107W	1720	---	---	111	55	---	---	21	---	**28.9**	**36.9**
BSX-6242	1716	---	---	111	29	---	---	32	---	27.7	**36.4**
BSX-501	1703	---	---	110	43	---	---	22	---	28.7	35.1
Sumner	1701	---	---	110	49	---	---	21	---	28.0	**36.3**
Kiowa	1698	---	---	109	36	---	---	35	---	27.6	32.9
Sitro	1652	---	---	106	30	---	---	26	---	27.2	34.7
BSX-6406	1641	---	---	106	33	---	---	26	---	27.1	**36.9**
HyClass154W	1602	---	---	103	31	---	---	26	---	27.8	34.7
Virginia	1515	---	---	98	32	---	---	29	---	28.4	33.4
KS4022	1511	---	---	97	35	---	---	25	---	27.2	32.8
CWH633	1478	---	---	95	52	---	---	24	---	26.9	35.3
Wichita	1445	---	---	93	25	---	---	32	---	27.8	34.3
BSX-6131	1443	---	---	93	34	---	---	27	---	27.8	34.6
BSX-6271	1358	---	---	87	27	---	---	29	---	26.0	**37.3**
Dimension	1306	---	---	84	42	---	---	20	---	27.9	34.4
DKW46-15	1209	---	---	78	42	---	---	28	---	27.2	35.8
CWH111	1159	---	---	75	26	---	---	32	---	28.1	33.1
DKW45-10	1067	---	---	69	46	---	---	24	---	**28.9**	33.3
DKW47-15	1063	---	---	69	38	---	---	29	---	27.4	33.7
DKW41-10	812	---	---	52	19	---	---	34	---	**30.2**	32.2
Flash	468	---	---	30	28	---	---	28	---	27.7	**36.4**
Mean	1552	---	---	---	37	---	---	28	---	27.2	35.3
CV	15	---	---	---	39	---	---	24	---	3.0	4.1
LSD (0.05)	215	---	---	---	NS	---	---	11	---	1.4	2.4

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

Fruita, Colorado

Calvin Pearson, Western Colorado Research Center
Colorado State University

Planted: 9/9/2008 at 5 lb/a in 30-in. rows
Harvested: 7/15/2009
Herbicides: Treflan 1.5 pt/a
Insecticides: None
Irrigation: Yes
Previous Crop: Barley
Soil Test: P=13.4, K=145, pH=6
Fertilizer: 36-92-0 lb N-P-K fertilizer in fall
50-0-0 lb N-P-K fertilizer in spring
Soil Type: Billings silty clay loam
Elevation: 4583 ft Latitude: 39° 10'N
Comments:

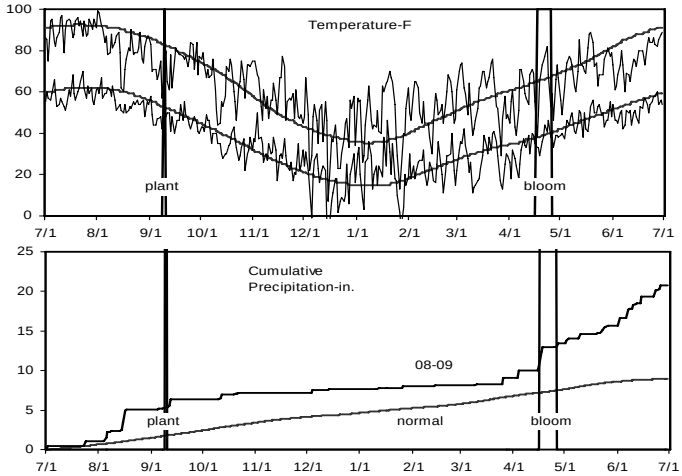


Table 18. Results for the 2009 National Winter Canola Variety Trial at Fruita, CO

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	50% Bloom	Plant Height	Lodging	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(d)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
Sitro	**4257**	**3724**	3991	128	**10.0**	111	57	0.0	0.0	5.5	**49.7**	19.9	45.4
NPZ0604	**4211**	---	---	126	**10.0**	112	56	0.0	0.0	5.3	**49.6**	19.3	45.4
CWH095D	**4109**	2685	3397	123	**10.0**	113	52	0.0	0.8	5.2	**50.1**	20.4	44.6
Hybrisurf	**4043**	**3383**	3713	121	**10.0**	112	56	0.0	1.7	7.8	49.1	18.5	46.2
Hornet	**3903**	**3287**	3595	117	**9.8**	113	60	0.0	1.7	6.1	**49.7**	20.6	45.6
CWH101D	**3833**	---	---	115	**10.0**	112	49	0.0	0.8	4.9	**49.9**	19.3	45.1
46W14	**3828**	---	---	115	**10.0**	113	59	0.0	2.5	6.5	49.2	19.1	46.8
Rossini	**3764**	---	---	113	**10.0**	109	54	3.3	0.8	4.8	**49.8**	20.3	45.4
Hybrigold	**3759**	2700	3230	113	**9.8**	111	55	0.0	5.0	6.9	49.1	19.5	45.8
Safran	**3741**	3110	3426	112	**10.0**	113	54	0.0	0.0	5.1	**50.1**	18.2	47.2
Flash	**3701**	2984	3342	111	**10.0**	114	57	0.0	0.0	5.1	**49.5**	19.6	44.7
Hybrilux	**3698**	---	---	111	**10.0**	112	57	0.0	0.8	5.5	47.6	18.8	46.4
AAMU-33-07	**3625**	---	---	109	**10.0**	111	57	0.0	0.0	5.9	48.4	18.4	46.6
45D03	3581	---	---	107	**10.0**	112	50	0.0	2.5	5.6	**50.3**	20.7	45.0
CWH111	3578	2353	2966	107	**10.0**	110	53	0.0	1.7	5.4	**50.2**	20.4	44.3
BSX-6242	3568	---	---	107	**10.0**	112	58	0.0	0.0	6.0	49.2	19.9	46.5
DKW45-10	3567	2586	3077	107	**10.0**	112	52	0.0	0.0	5.7	49.4	18.8	46.8
AAMU-18-07	3553	---	---	106	**10.0**	107	55	0.0	3.3	5.0	48.9	19.2	45.2
Kadore	3490	2516	3003	105	**10.0**	113	51	0.0	0.8	5.6	**50.0**	18.9	47.4
Virginia	3405	2412	2909	102	**10.0**	112	53	0.0	0.0	5.6	49.3	19.0	44.9
HyClass115W	3367	3171	3269	101	9.3	112	59	1.7	0.8	7.1	49.0	20.0	45.5
Dimension	3358	3005	3181	101	**10.0**	112	55	3.3	3.3	7.2	48.8	18.0	46.8
Kronos	3355	**3312**	3334	101	**9.7**	113	61	0.0	4.2	6.6	**50.3**	18.8	45.9
DKW47-15	3342	2461	2902	100	**10.0**	112	58	0.0	0.8	5.4	48.7	17.9	46.3
Mean	3336	2760	---	---	9.9	112	56	0.4	1.7	6.0	49.3	19.3	45.7
46W99	3277	---	---	98	**10.0**	111	54	0.0	3.3	5.4	**49.9**	19.5	45.6
Baldur	3249	**3342**	3296	97	**9.9**	112	55	0.0	1.7	6.2	**49.9**	19.2	46.1
HyClass154W	3242	2854	3048	97	**10.0**	114	57	0.0	0.0	6.4	49.3	19.0	45.7
KS4158	3232	2943	3088	97	**10.0**	113	56	0.0	0.8	5.8	**49.9**	18.9	45.9
DKW46-15	3214	2600	2907	96	**10.0**	113	52	0.0	0.0	4.8	**49.7**	19.6	44.4
Hybristar	3184	3054	3119	95	**10.0**	111	51	0.0	2.5	5.3	**50.0**	18.8	46.8
KS3254	3156	2771	2964	95	**10.0**	113	59	0.0	0.8	6.0	49.2	18.6	45.4
CWH633	3131	2583	2857	94	**10.0**	112	55	0.0	1.7	5.7	**49.5**	19.2	45.3
HyClass107W	3116	2382	2749	93	**10.0**	113	59	0.0	0.0	5.3	48.5	20.4	45.4
ARC00005-2	3101	---	---	93	**10.0**	113	57	0.0	3.3	7.7	**49.6**	20.2	44.6
KS4085	3064	2586	2825	92	**10.0**	112	58	0.0	0.8	7.1	49.3	19.4	46.1
BSX-6271	3052	---	---	91	**10.0**	111	53	0.0	2.5	6.1	48.6	18.2	45.3
BSX-6406	3050	---	---	91	**9.8**	113	57	0.0	1.7	7.2	48.7	20.6	44.8
KS3074	3036	2152	2594	91	**10.0**	114	58	0.0	2.5	6.0	**49.9**	19.3	46.1
Hearty	2987	---	---	90	9.5	113	58	0.0	1.7	5.9	**50.2**	18.9	45.8
ARC00004-2	2980	---	---	89	**10.0**	115	64	3.3	1.7	7.2	**49.7**	19.7	44.9
DKW41-10	2975	2422	2699	89	**9.8**	111	45	0.0	3.3	5.7	**50.4**	19.3	44.7
KS4022	2968	2378	2673	89	**9.8**	114	55	0.0	0.8	5.8	49.3	20.5	44.6

Table 18. Results for the 2009 National Winter Canola Variety Trial at Fruita, CO

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	50% Bloom	Plant Height	Lodging	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(d)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)
HyClass110W	2925	2426	2675	88	**10.0**	112	49	0.0	0.8	5.2	49.2	18.0	46.6
Sumner	2897	2264	2581	87	**10.0**	110	51	0.0	3.3	5.2	**49.6**	19.3	46.3
Wichita	2877	2605	2741	86	**10.0**	113	56	10.0	3.3	8.0	48.4	20.3	45.0
KS3132	2874	2481	2678	86	**9.8**	114	59	0.0	3.3	6.5	49.0	19.8	44.7
Kiowa	2806	2401	2604	84	**10.0**	114	58	0.0	0.0	6.0	48.3	19.5	44.8
ARC2189-2	2768	---	---	83	**10.0**	113	63	0.0	6.7	6.9	48.3	18.1	46.9
BSX-6131	2729	---	---	82	**10.0**	114	58	0.0	1.7	6.3	49.4	17.1	48.0
ARC00024-2	2607	---	---	78	**10.0**	115	67	0.0	5.8	7.6	49.4	19.6	45.4
BSX-501	3000	2482	2741	90	**10.0**	113	57	0.0	0.0	6.2	46.8	20.2	44.8
Mean	3336	2760	---	---	9.9	112	56	0.4	1.7	6.0	49.3	19.3	45.7
CV	12	12	---	---	1.3	1	5	649.5	114.4	15.5	1.2	6.2	2.7
LSD (0.05)	642	551	---	---	0.2	1	4	NS	3.1	1.5	0.9	NS	NS

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

Yellow Jacket, Colorado

Abdel Berrada, Colorado State University
Planted: 8/27/2008 at 5 lb/a in 8-in. rows
Harvested: 7/28/2009
Herbicides: Trifluralin 1.5 pt/a
Insecticides: None
Irrigation: 12.3 in.
Previous Crop: Winter wheat
Soil Test: NA
Fertilizer: 32-0-0 lb N-P-K fertilizer in fall

Soil Type: Wetherill loam
Elevation: 6928 ft Latitude: 37° 32'N
Comments:

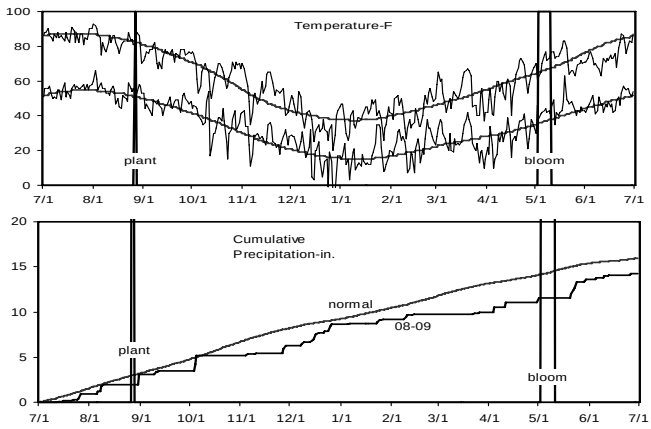


Table 19. Results for the 2009 National Winter Canola Variety Trial at Yellow Jacket, CO

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)	Fall Stand	50% Bloom	Plant Height	Lodging	Shatter	Moist.	Protein	Oil
	2009	2008	2-Yr.	2009	2009	(0-10)	(d)	(in.)	(%)	(%)	(%)	(%)	(%)
Sitro	**4738**	**1918**	3328	130	97	10.0	125	51.7	0.3	0.3	5.4	22.0	41.3
Safran	**4486**	**1892**	3189	123	96	10.0	126	53.0	0.0	0.3	5.2	22.6	40.6
BSX-6242	**4168**	---	---	115	98	10.0	125	52.7	0.0	0.3	5.4	**24.3**	39.7
Hornet	**4079**	**2063**	3071	112	95	9.6	127	57.0	0.0	0.3	5.2	22.5	41.0
Visby	**3969**	**1802**	2886	109	95	9.4	124	49.3	0.3	0.3	5.2	21.7	41.3
Dimension	**3968**	1378	2673	109	96	9.9	124	51.0	0.0	1.0	5.2	21.0	44.2
Baldur	3818	**1804**	2811	105	96	9.8	124	53.3	0.0	0.3	5.2	22.0	40.5
BSX-6271	3770	---	---	104	96	9.9	124	51.3	0.3	0.3	5.2	23.4	41.1
KS3254	3732	**1956**	2844	103	92	9.7	128	54.7	0.0	0.3	5.3	**23.5**	40.6
DKW45-10	3725	1272	2499	102	95	9.5	125	47.3	0.3	0.7	5.3	**25.3**	38.5
HyClass107W	3707	1586	2647	102	97	10.0	126	52.3	0.0	0.7	5.3	**25.6**	40.5
BSX-6406	3683	---	---	101	97	9.8	127	52.7	0.0	0.3	5.3	22.7	42.2
Flash	3680	1194	2437	101	90	10.0	127	54.7	0.0	3.3	5.4	23.0	41.2
KS4022	3647	1518	2583	100	93	9.7	127	54.3	0.0	0.3	5.2	23.3	41.5
KS4158	3632	**1646**	2639	100	92	9.4	125	48.3	0.0	1.0	5.2	21.7	43.5
CWH633	3586	---	---	99	98	9.7	126	52.7	0.0	0.7	5.2	**23.6**	40.7
NPZ0604	3564	---	---	98	99	9.5	124	49.0	0.0	3.3	5.2	23.2	40.9
KS4085	3520	1495	2508	97	96	9.7	127	55.0	0.0	2.3	5.3	**24.1**	40.7
BSX-501	3493	**1634**	2564	96	97	9.9	127	52.3	0.0	1.7	5.5	**23.8**	40.9
DKW47-15	3491	1433	2462	96	93	9.2	126	50.7	0.7	0.3	5.2	**23.6**	41.4
Kronos	3471	**1948**	2710	95	94	9.9	125	52.7	0.0	12.0	5.5	21.2	41.5
Wichita	3467	1494	2481	95	95	9.9	127	49.7	0.3	1.3	5.4	**24.9**	40.0
BSX-6131	3446	---	---	95	96	9.7	130	55.7	0.0	0.7	5.3	**24.5**	39.2
DKW46-15	3357	**1808**	2583	92	96	9.5	127	49.0	0.3	0.3	5.0	**23.9**	40.8
Sumner	3352	1395	2374	92	94	9.1	124	46.7	0.7	0.3	5.2	**23.6**	41.6
Virginia	3228	1159	2194	89	94	10.0	124	45.0	0.3	3.7	5.4	**24.2**	40.6
Kiowa	3131	1546	2339	86	92	9.8	128	52.3	0.3	0.7	5.2	22.6	41.1
CWH111	2946	1114	2030	81	85	10.0	123	45.7	0.3	8.7	6.8	23.2	40.8
DKW41-10	2710	1290	2000	74	92	9.7	123	41.3	4.0	0.3	5.2	**25.5**	39.0
Mean	3640	1544	---	---	95	9.7	126	51.1	0.3	1.6	5.3	23.3	40.9
CV	14	19	---	---	5.4	3.9	---	5.6	---	---	4.5	4.5	3.0
LSD (0.05)	840	472	---	---	NS	NS	---	4.6	---	NS	0.4	2.2	NS

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

Clearwater, Kansas

Gary Cramer and Victor Martin, Kansas State University
Planted: 9/23/2008 at 5 lb/a
Harvested: 6/30/2009
Herbicides: None
Insecticides: None
Irrigation: None
Previous Crop: Winter wheat
Soil Test: pH=6.4, OM=1.1, N=37 ppm, P=133 ppm, K=182 ppm
Fertilizer: None

Soil Type: Milan loam
Elevation: 1268 ft Latitude: 37°29'N
Comments: Low test weights attributed to immature seed and insect damage.

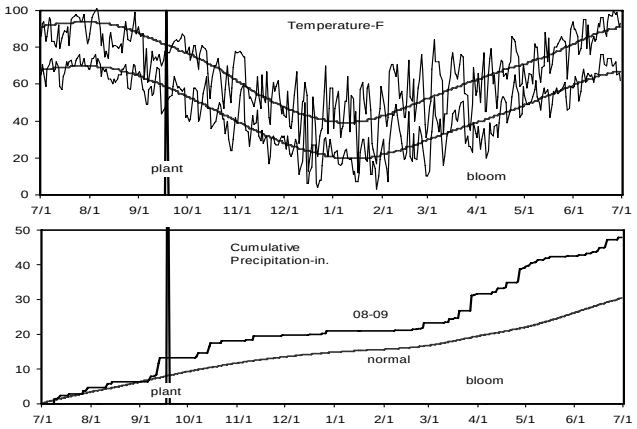


Table 20. Results for the 2009 National Winter Canola Variety Trial at Clearwater, KS

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(%)	(lb/bu)	(%)	(%)
Flash	**2298**	---	---	162	---	---	---	---	11.1	38.6	11.1	38.6
HyClass107W	**2077**	---	---	146	---	---	---	---	9.9	38.9	9.9	38.9
Hybrisurf	**1871**	---	---	132	---	---	---	---	11.4	36.3	11.4	36.3
DKW47-15	**1625**	---	---	114	---	---	---	---	9.8	36.5	9.8	36.5
Dimension	1448	---	---	102	---	---	---	---	10.1	35.9	10.1	35.9
Sumner	1441	---	---	101	---	---	---	---	9.9	35.0	9.9	35.0
HyClass110W	1423	---	---	100	---	---	---	---	10.1	38.7	10.1	38.7
Baldur	1279	---	---	90	---	---	---	---	10.2	36.0	10.2	36.0
HyClass115W	1253	---	---	88	---	---	---	---	9.6	35.5	9.6	35.5
Hybrigold	1193	---	---	84	---	---	---	---	10.1	35.9	10.1	35.9
DKW46-15	1175	---	---	83	---	---	---	---	10.1	38.4	10.1	38.4
DKW41-10	1170	---	---	82	---	---	---	---	11.0	34.7	11.0	34.7
DKW45-10	1051	---	---	74	---	---	---	---	10.3	34.5	10.3	34.5
Wichita	1012	---	---	71	---	---	---	---	10.1	34.4	10.1	34.4
Virginia	996	---	---	70	---	---	---	---	11.2	34.6	11.2	34.6
Mean	1421	---	---	---	---	---	---	---	10.3	36.3	10.3	36.3
CV	29	---	---	---	---	---	---	---	11.2	10.5	11.2	10.5
LSD (0.05)	699	---	---	---	---	---	---	---	NS	NS	NS	NS

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

Hutchinson, Kansas

William Heer, Kansas State University
Planted: 9/22/2008 at 5 lb/a in 9-in. rows
Swathed: 6/15/2009
Harvested: 6/23/2009
Herbicides: Treflan
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: NA
Fertilizer: 75-0-0 lb N-P-K fertilizer in fall
50-0-0 lb N-P-K fertilizer in spring
Soil Type: Ost silt loam
Elevation: 1570 ft Latitude: 37° 56'N
Comments: Because of wet field conditions, the location was swathed after the optimum date. Strong winds and a heavy rainstorm caused shattering in the windrows.

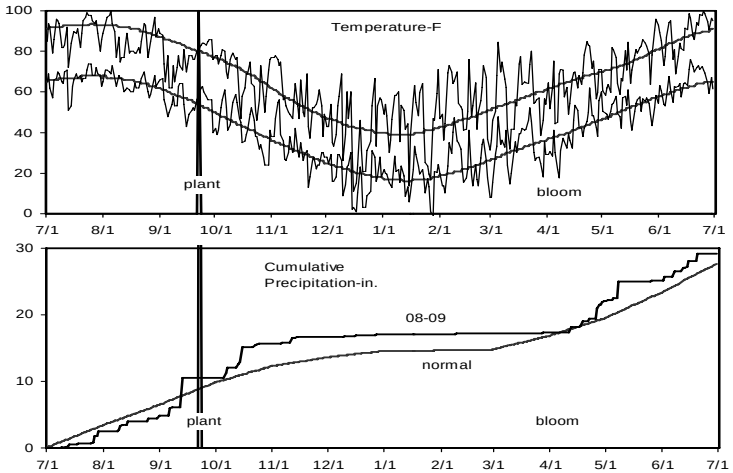


Table 21. Results for the 2009 National Winter Canola Variety Trial at Hutchinson, KS

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	Vigor[1]	Freeze Damage[2]	Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(1-5)	(1-5)	(in.)	(%)	(lb/bu)	(%)	(%)
CWH095D	**1616**	---	---	149	6.3	4.7	2.0	39	5.7	48.0	21.4	42.3
KS3132	**1530**	---	---	141	5.7	3.3	1.3	43	5.8	49.4	22.1	42.5
Safran	**1513**	---	---	140	5.3	4.0	1.7	39	5.5	49.4	21.1	**42.8**
KS4158	**1479**	---	---	136	5.7	3.3	1.7	41	5.6	49.2	22.2	42.5
Kadore	**1465**	---	---	135	3.7	3.3	1.0	39	5.9	48.5	21.9	41.2
45D03	**1396**	---	---	129	6.0	4.3	2.0	39	5.5	48.1	21.0	**43.3**
Baldur	**1394**	---	---	129	5.0	4.3	1.7	42	6.0	50.0	21.0	42.4
Sitro	**1388**	---	---	128	5.7	4.3	3.3	38	5.9	49.2	22.4	41.7
Flash	**1366**	---	---	126	6.3	4.7	2.3	41	5.7	48.7	22.2	42.5
BSX-501	**1318**	---	---	122	5.0	3.7	2.3	43	5.6	49.1	**24.0**	42.1
KS3254	**1317**	---	---	121	6.0	3.7	1.0	44	5.7	48.9	22.6	41.8
BSX-6131	**1312**	---	---	121	6.0	4.3	2.0	43	6.0	48.1	**24.3**	41.0
KS4085	**1278**	---	---	118	7.0	4.0	2.3	44	5.6	49.0	**23.8**	41.3
Visby	**1274**	---	---	118	4.3	4.0	3.7	37	5.9	49.7	21.2	42.4
BSX-6406	**1270**	---	---	117	7.0	4.3	2.7	40	5.8	49.6	23.4	42.1
Kronos	**1260**	---	---	116	4.0	3.7	1.7	44	5.9	49.5	21.8	41.1
BSX-6271	**1259**	---	---	116	5.7	4.0	3.0	41	5.7	49.0	21.8	**43.4**
HyClass154W	**1251**	---	---	115	5.3	4.0	1.0	43	6.0	49.4	22.6	41.7
Wichita	**1238**	---	---	114	4.3	3.3	2.0	40	5.9	49.1	**23.8**	41.7
KS3077	**1196**	---	---	110	6.0	3.0	2.0	42	5.7	48.4	**23.8**	41.1
CWH101D	**1192**	---	---	110	6.7	4.0	3.3	36	5.6	47.3	21.6	42.3
ARC2189-2	**1148**	---	---	106	4.7	4.0	2.3	46	5.8	48.0	21.8	**42.7**
Hornet	**1137**	---	---	105	5.0	4.3	3.0	41	5.8	49.1	21.5	42.5
Kiowa	1120	---	---	103	6.0	4.0	2.7	43	6.0	47.9	23.3	40.8
KS4022	1097	---	---	101	5.7	3.3	1.7	42	5.7	48.4	23.0	41.5
AAMU-33-07	1082	---	---	100	4.7	4.0	2.3	39	5.7	50.0	23.4	41.3
46W14	1080	---	---	100	6.0	4.7	2.7	39	5.9	48.7	21.5	**43.8**
DKW46-15	1050	---	---	97	5.0	3.0	2.0	38	5.5	47.1	22.7	**42.9**
KS3074	1035	---	---	95	5.7	3.3	2.0	41	5.6	47.3	22.2	42.2
CWH633	1013	---	---	93	5.0	3.3	2.7	39	5.6	47.6	**23.8**	41.1
Hybrigold	968	---	---	89	5.3	4.3	2.7	39	6.0	48.2	23.4	41.3
NPZ0604	953	---	---	88	5.3	4.0	4.0	38	5.5	47.7	21.6	**42.7**
Sumner	946	---	---	87	2.3	3.0	3.0	38	5.6	48.6	**24.7**	40.9
BSX-6242	938	---	---	86	6.7	3.7	2.7	41	5.9	48.1	**24.3**	40.7
ARC00024-2	936	---	---	86	6.0	4.3	2.7	44	5.9	48.7	22.9	40.9
CWH111	916	---	---	85	6.0	4.7	5.0	35	5.8	48.6	**24.0**	39.7
ARC00004-2	906	---	---	84	6.3	5.0	2.3	47	5.7	49.2	23.3	40.8
Virginia	876	---	---	81	5.7	4.0	2.7	36	5.9	47.7	22.5	41.6
46W99	875	---	---	81	3.7	4.3	2.7	39	5.7	49.0	21.8	42.5
Hybristar	869	---	---	80	6.7	5.0	3.0	39	5.7	48.4	21.6	**42.8**
ARC00005-2	864	---	---	80	6.7	4.3	2.3	40	6.1	48.4	22.6	42.1
HyClass110W	794	---	---	73	5.3	3.0	5.0	35	5.7	47.6	**24.9**	40.0
HyClass107W	782	---	---	72	4.0	3.0	2.0	41	5.7	46.9	**24.5**	40.9

Table 21. Results for the 2009 National Winter Canola Variety Trial at Hutchinson, KS

Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand	Vigor[1]	Freeze Damage[2]	Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	(0-10)	(1-5)	(1-5)	(in.)	(%)	(lb/bu)	(%)	(%)
DKW47-15	782	---	---	72	5.7	3.3	2.3	39	5.6	47.2	23.3	41.7
Hybrisurf	777	---	---	72	6.0	4.3	2.3	40	5.9	47.9	21.5	**42.8**
Hybrilux	739	---	---	68	5.3	4.0	3.0	43	6.0	47.1	**23.7**	41.1
DKW45-10	718	---	---	66	5.3	3.0	4.3	35	5.9	46.3	23.6	40.7
Dimension	697	---	---	64	5.7	4.7	3.0	40	5.9	48.1	22.0	42.4
AAMU-18-07	692	---	---	64	7.3	4.3	5.0	34	5.9	43.7	22.5	41.3
HyClass115W	609	---	---	56	2.3	2.7	3.0	38	5.7	47.0	**24.1**	40.9
DKW41-10	580	---	---	54	6.3	3.3	4.7	37	5.7	47.5	**24.8**	40.4
Mean	1084	---	---	---	5.5	3.9	2.6	40	5.8	48.3	22.8	41.8
CV	25	---	---	---	19.6	15.0	19.2	4	4.6	2.4	3.3	1.7
LSD (0.05)	433	---	---	---	1.7	0.9	0.8	3	NS	1.9	1.2	1.2

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

[1]Vigor rated as 1=poor to 5=excellent. [2]Freeze damage rated as 1=no damage to 5=severe.

Manhattan, Kansas

Michael Stamm
Kansas State University and Oklahoma State University

Planted: 9/18/2008 at 5 lb/a in 9-in. rows
Swathed: 6/19/2009
Harvested: 6/29/2009
Herbicides: 1 qt/a Treflan
Insecticides: None
Irrigation: None
Previous Crop: Fallow
Soil Test: NA
Fertilizer: 20-0-0 lb N-P-K fertilizer in fall
70-0-0 lb N-P-K fertilizer in spring
Soil Type: Smolan silt loam
Elevation: 1064 ft Latitude: 39° 12'N
Comments: Damp conditions throughout grain fill resulted in low test weights and some moldy pods and seeds.

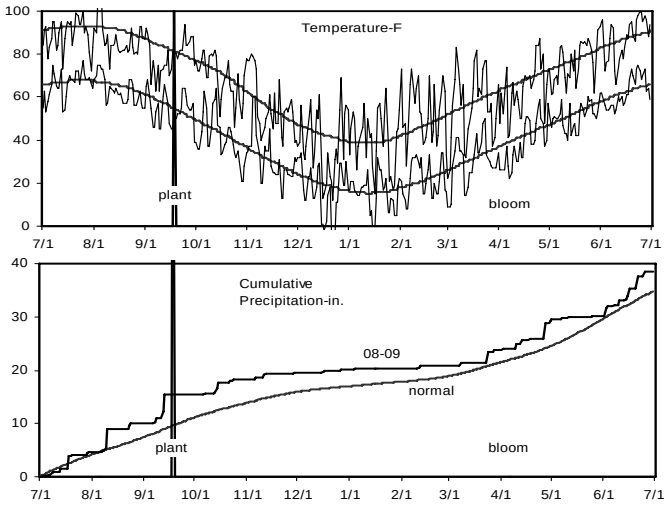


Table 22. Results for the 2009 National Winter Canola Variety Trial at Manhattan, KS

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (0-10)			Plant Height	Moisture	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
CWH095D	**1533**	---	---	178	9.3	---	---	39	5.6	41.7	24	37
Sitro	**1424**	---	---	166	8.7	---	---	41	5.7	41.5	24	36
Hornet	**1363**	---	---	158	9.0	---	---	41	5.5	43.6	23	38
KS4158	**1353**	---	---	157	8.3	---	---	40	5.9	43.0	24	40
KS3132	**1278**	---	---	148	8.7	---	---	42	5.5	40.1	25	35
BSX-6242	**1249**	---	---	145	9.0	---	---	43	5.5	40.5	25	37
BSX-6271	**1248**	---	---	145	9.0	---	---	42	5.8	40.7	24	38
CWH101D	**1229**	---	---	143	9.0	---	---	39	5.5	40.3	24	36
KS4085	**1207**	---	---	140	9.0	---	---	45	6.3	43.3	**25**	38
BSX-6406	**1177**	---	---	137	9.0	---	---	43	5.7	42.2	25	37
KS4022	**1176**	---	---	137	9.7	---	---	43	6.3	41.9	25	36
Safran	**1144**	---	---	133	7.0	---	---	41	6.1	41.2	24	36
KS3074	**1105**	---	---	128	8.7	---	---	43	5.5	42.0	**25**	37
KS3254	**1103**	---	---	128	8.7	---	---	43	6.1	41.4	24	37
Baldur	**1089**	---	---	127	8.0	---	---	42	6.3	42.1	24	35
Flash	**1045**	---	---	121	7.7	---	---	42	5.9	39.8	24	35
ARC2189-2	**1017**	---	---	118	8.0	---	---	43	6.1	38.3	25	38
ARC00024-2	984	---	---	114	8.3	---	---	45	5.7	40.5	25	36
HyClass154W	976	---	---	113	8.3	---	---	43	5.8	37.6	24	33
ARC00005-2	974	---	---	113	8.0	---	---	45	6.4	41.0	25	35
45D03	974	---	---	113	7.3	---	---	39	6.1	39.3	23	35
AAMU-33-07	974	---	---	113	8.0	---	---	40	5.8	38.0	24	36
Kiowa	971	---	---	113	9.0	---	---	44	5.8	39.8	**26**	36
Dimension	970	---	---	113	7.7	---	---	39	5.9	40.6	24	38
Wichita	970	---	---	113	8.0	---	---	39	6.0	36.8	24	35
Kadore	923	---	---	107	8.0	---	---	37	6.4	39.1	24	34
HyClass107W	879	---	---	102	7.3	---	---	40	5.6	40.7	**25**	38
Kronos	811	---	---	94	7.3	---	---	40	6.2	41.3	25	32
NPZ0604	761	---	---	88	9.0	---	---	41	5.6	40.0	23	36
Virginia	718	---	---	83	7.7	---	---	40	5.8	38.7	**25**	35
ARC00004-2	717	---	---	83	7.3	---	---	43	6.4	33.4	**26**	33
46W14	712	---	---	83	5.3	---	---	37	6.3	38.5	24	34
DKW41-10	697	---	---	81	8.3	---	---	34	6.1	35.7	**26**	32
DKW47-15	688	---	---	80	8.0	---	---	38	5.6	39.9	**25**	38
Visby	688	---	---	80	8.3	---	---	38	5.9	38.8	23	36
Hybrisurf	680	---	---	79	7.7	---	---	37	6.1	36.0	23	35
Hybristar	666	---	---	77	6.7	---	---	37	5.8	36.6	24	36
BSX-6131	665	---	---	77	8.7	---	---	43	7.5	35.2	25	31
46W99	565	---	---	66	6.0	---	---	36	6.4	39.8	24	37
DKW46-15	557	---	---	65	9.0	---	---	35	5.4	34.3	**25**	30
CWH633	550	---	---	64	7.0	---	---	37	5.9	39.3	**26**	36
BSX-501	532	---	---	62	9.0	---	---	40	5.7	31.8	25	34

Table 22. Results for the 2009 National Winter Canola Variety Trial at Manhattan, KS

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (0-10)			Plant Height	Moisture	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	(lb/bu)	(%)	(%)
Hybrilux	509	---	---	59	7.3	---	---	40	5.9	40.8	**26**	34
DKW45-10	498	---	---	58	7.7	---	---	35	6.0	41.7	**26**	38
KS3077	490	---	---	57	7.3	---	---	39	5.9	33.9	24	30
Sumner	479	---	---	56	7.7	---	---	35	5.5	43.8	**26**	37
CWH111	449	---	---	52	8.0	---	---	35	6.1	36.1	24	31
Hybrigold	423	---	---	49	6.0	---	---	39	6.3	37.4	**26**	30
HyClass115W	332	---	---	39	5.3	---	---	37	5.9	39.6	**25**	37
AAMU-18-07	226	---	---	26	6.3	---	---	35	6.4	35.9	23	38
HyClass110W	149	---	---	17	5.7	---	---	32	6.2	37.1	**26**	35
Mean	861	---	---	---	7.9	---	---	40	6.0	39.3	25	35
CV	37	---	---	---	12.8	---	---	5	8.3	10.5	3	8
LSD (0.05)	519	---	---	---	1.6	---	---	3	0.8	NS	1	NS

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

Farmington, New Mexico

Mick O'Neill and Curtis Owen, New Mexico State University
Planted: 9/5/2008 at 5 lb/a in 10-in. rows
Harvested: 7/29/2009
Herbicides: None
Insecticides: Lorsban
Irrigation: 28 in.
Previous Crop: Fallow
Soil Test: NA
Fertilizer: 10-52-60 lb N-P-K fertilizer in fall
140-0-0 lb N-P-K fertilizer in spring
Soil Type: Doak sandy loam
Elevation: 5640 ft Latitude: 36°
Comments:

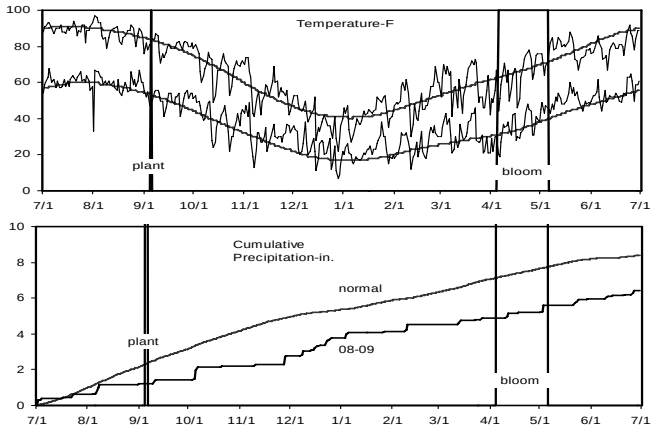


Table 23. Results for the 2009 National Winter Canola Variety Trial at Farmington, NM

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(d)	(in)	(%)	(%)	(lb/bu)	(%)	(%)
Hybrisurf	**5868**	---	---	141	98	---	---	**94**	113	42	1	7.0	**48.0**	25.4	**40.7**
Flash	**5717**	4615	5166	138	100	97	99	**95**	117	49	2	8.4	**48.3**	25.4	**41.5**
46W14	**5280**	---	---	127	100	---	---	**92**	110	43	3	5.4	**47.2**	25.9	**40.4**
Sitro	**5166**	4561	4864	124	100	100	100	**95**	110	46	6	6.2	**47.7**	26.6	**40.5**
KS3254	**5104**	3896	4500	123	100	98	99	**97**	117	50	3	10.9	**48.0**	26.1	**40.0**
Wichita	**4726**	3640	4183	114	100	100	100	**94**	113	47	3	9.7	**48.5**	**26.8**	**40.6**
Baldur	**4726**	3923	4324	114	98	100	99	**92**	111	46	4	10.3	**49.1**	25.3	**40.8**
Hornet	**4579**	4156	4368	110	100	100	100	**92**	113	44	2	6.8	**47.3**	24.6	**41.2**
KS4085	**4561**	3835	4198	110	100	100	100	**94**	116	44	2	6.2	**47.7**	26.7	39.9
HyClass154W	**4550**	3216	3883	110	100	100	100	**92**	117	46	3	11.0	**47.9**	26.8	38.5
BSX-6271*	**4440**	---	---	107	73	---	---	**82**	110	47	5	9.8	**48.2**	26.7	**40.4**
BSX-501	**4421**	---	---	107	100	---	---	**94**	117	49	2	9.0	**48.6**	**27.1**	39.3
BSX-6406	**4395**	---	---	106	100	---	---	**94**	115	44	3	9.7	**47.3**	**27.1**	39.9
BSX-6242	**4394**	---	---	106	100	---	---	**91**	113	45	3	8.6	**48.4**	**27.4**	**40.2**
Virginia	**4382**	4363	4372	106	100	100	100	**94**	112	41	4	8.0	**47.7**	**27.4**	39.9
Visby	**4363**	3835	4099	105	100	93	97	**83**	110	42	4	6.8	**47.5**	25.7	**40.4**
Hybrilux	**4319**	---	---	104	95	---	---	**88**	113	44	3	8.3	**47.5**	**27.4**	**40.6**
KS3074	**4302**	4627	4464	104	97	93	95	**91**	115	45	3	9.9	46.2	**27.6**	38.8
46W99	**4260**	---	---	103	97	---	---	**87**	110	42	3	9.6	**48.1**	25.0	**41.1**
ARC00005-2	**4242**	---	---	102	97	---	---	**90**	115	46	5	8.3	**48.0**	**27.8**	39.0
Kiowa	4182	3444	3813	101	100	100	100	**95**	113	45	5	9.2	**46.8**	**26.9**	39.1
BSX-6131	4175	---	---	101	100	---	---	**93**	117	47	5	8.0	**47.7**	26.7	**40.0**
AAMU-33-07	4156	---	---	100	97	---	---	**88**	111	42	4	6.1	46.6	26.1	**40.1**
Safran	4043	4758	4401	97	98	93	96	**83**	118	45	2	7.4	44.5	25.3	**41.0**
KS4022	4024	3849	3937	97	100	100	100	**88**	118	44	2	10.0	**47.3**	26.7	39.6
ARC2189-2	3969	---	---	96	98	---	---	**90**	115	51	5	9.6	**47.1**	**27.6**	39.1
Hybristar	3939	3495	3717	95	97	100	99	**95**	110	43	4	7.5	**47.4**	26.1	**40.7**
KS4158	3862	3343	3602	93	97	100	99	**83**	113	40	5	7.1	**47.9**	26.7	**41.0**
Hybrigold*	3789	3711	3750	91	80	100	90	**89**	112	45	4	8.5	**47.9**	**26.9**	39.5
NPZ0604	3778	---	---	91	97	---	---	**87**	118	41	4	7.0	**47.0**	**26.8**	**40.2**
45D03*	3732	---	---	90	73	---	---	74	111	43	4	5.2	**48.2**	24.4	**41.0**
ARC00024-2	3450	---	---	83	100	---	---	**85**	125	47	2	7.2	46.6	**27.8**	37.5
Dimension	3343	4062	3702	81	83	93	88	**84**	110	47	5	7.2	**47.4**	**26.9**	39.7
Kadore	3257	3853	3555	78	97	93	95	**93**	114	38	3	8.5	**46.7**	26.1	39.4
ARC00004-2	3222	---	---	78	100	---	---	**92**	125	48	3	10.0	46.2	**27.4**	38.6
KS3132	3183	3867	3525	77	97	100	99	**82**	117	49	8	5.3	45.1	26.8	**40.0**
AAMU-18-07*	2727	---	---	66	73	---	---	**82**	95	36	11	7.2	44.2	24.8	39.5
Sumner	2681	2348	2515	65	93	90	92	73	111	36	1	7.5	46.3	**28.4**	38.5
Kronos	2547	4593	3570	61	88	100	94	68	114	46	2	9.7	**46.8**	**26.9**	37.9
Mean	4150	3787	---	---	95	98	---	89	113	45	4	8.2	47.3	26.5	39.9
CV	25	23	---	---	321	6	---	13	0.0	10	92	29.3	3.2	3.0	2.0
LSD (0.05)	1669	NS	---	---	24	NS	---	18	4.0	7	5	3.9	2.4	1.6	1.6

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. *Winter survival loss due to sand blasting from wind. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

Enid, Oklahoma

John Lamle, Johnston Seed Company
Planted: 9/23/2008 at 5 lb/a in 9-in. rows
Swathed: 6/1/2009
Harvested: 6/9/2009
Herbicides: Trifluralin 1.5 pt/a
Insecticides: Silencer
Irrigation: None
Previous Crop: Canola
Soil Test: NA
Fertilizer: 100-0-0 lb N-P-K fertilizer in fall
50-0-0 lb N-P-K fertilizer in spring
Soil Type: Silt loam
Elevation: 1227 ft Latitude: 36° 26'N
Comments: Plot was swathed near optimum seed color change. Ideal conditions resulted in excellent yields.

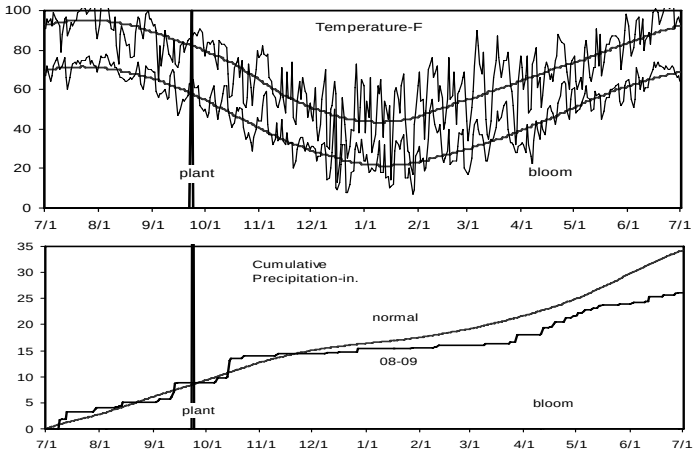


Table 24. Results for the 2009 National Winter Canola Variety Trial at Enid, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Bloom (% of open buds)	Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(4/15/09)	(in.)	(%)	(lb/bu)	(%)	(%)
45D03	**2759**	**1161**	1960	118	---	---	---	81.7	37	9.3	**52.7**	25.2	**38.7**
Safran	**2731**	**1174**	1952	117	---	---	---	65.0	39	9.7	**53.2**	26.3	38.0
CWH101D	**2709**	---	---	116	---	---	---	93.3	37	9.3	51.7	26.6	36.4
KS4158	**2698**	**935**	1816	116	---	---	---	73.3	41	9.7	51.6	26.9	**38.7**
Baldur	**2697**	448	1572	116	---	---	---	75.0	40	9.8	**53.0**	25.3	37.6
Dimension	**2651**	589	1620	114	---	---	---	58.3	39	9.6	**52.3**	24.6	**39.9**
ARC00005-2	**2592**	---	---	111	---	---	---	76.7	43	9.4	**52.7**	27.6	37.3
BSX-501	**2587**	546	1566	111	---	---	---	25.0	43	9.6	**52.3**	27.9	36.8
KS3132	**2578**	417	1497	111	---	---	---	81.7	40	9.4	**51.9**	26.6	38.1
ARC00004-2	**2571**	---	---	110	---	---	---	8.3	46	9.8	**52.3**	27.4	36.6
KS3074	**2556**	395	1476	110	---	---	---	76.7	42	9.4	**52.2**	27.7	37.5
ARC2189-2	**2551**	---	---	109	---	---	---	50.0	43	9.4	51.6	26.9	38.2
Wichita	**2547**	584	1566	109	---	---	---	75.0	39	9.4	**52.0**	28.0	37.8
BSX-6271	**2532**	---	---	109	---	---	---	80.0	41	9.3	51.3	27.2	38.4
Flash	**2517**	**1125**	1821	108	---	---	---	46.7	41	9.6	51.6	25.5	**39.0**
Kadore	**2503**	578	1541	107	---	---	---	83.3	35	9.8	51.8	27.2	35.3
46W14	**2498**	**1138**	1818	107	---	---	---	76.7	36	9.8	**51.9**	26.0	**39.0**
KS3254	**2490**	686	1588	107	---	---	---	56.7	43	10.3	**52.2**	27.1	37.8
AAMU-33-07	**2488**	---	---	107	---	---	---	88.3	38	10.1	51.0	27.9	37.4
Virginia	**2470**	**827**	1649	106	---	---	---	85.0	35	8.7	50.8	**28.6**	36.3
Sumner	**2465**	188	1326	106	---	---	---	80.0	38	9.1	51.1	27.4	37.4
KS3077	**2448**	471	1460	105	---	---	---	71.7	39	9.6	**52.5**	27.6	37.4
Visby	**2447**	294	1370	105	---	---	---	76.7	38	9.3	**52.2**	25.9	37.4
BSX-6242	**2427**	---	---	104	---	---	---	75.0	40	9.0	**52.2**	**28.6**	37.4
HyClass107W	**2408**	426	1417	103	---	---	---	68.3	40	8.9	51.5	**29.0**	37.7
KS4085	**2394**	654	1524	103	---	---	---	80.0	43	9.4	51.5	27.3	**38.7**
Kronos	**2391**	---	---	103	---	---	---	80.0	39	9.6	**52.5**	26.2	36.9
Hybrilux	2342	---	---	100	---	---	---	70.0	41	8.8	51.4	27.0	38.4
NPZ0604	2320	---	---	100	---	---	---	85.0	36	8.9	**51.9**	25.5	38.5
KS4022	2256	**969**	1613	97	---	---	---	75.0	39	9.7	51.0	**28.2**	37.1
ARC00024-2	2254	---	---	97	---	---	---	5.0	46	9.9	**52.3**	**28.7**	34.6
46W99	2248	359	1303	96	---	---	---	78.3	37	9.0	**51.9**	25.8	**39.0**
BSX-6406	2242	---	---	96	---	---	---	81.7	42	9.5	51.7	27.3	38.4
Hybrigold	2229	490	1359	96	---	---	---	60.0	37	9.3	**52.7**	26.5	37.5
BSX-6131	2216	---	---	95	---	---	---	71.7	40	9.2	51.1	28.0	36.7
Kiowa	2211	**1066**	1639	95	---	---	---	60.0	43	9.4	**52.2**	26.9	37.0
HyClass154W	2198	**972**	1585	94	---	---	---	63.3	40	9.9	51.7	26.9	36.6
DKW45-10	2179	201	1190	94	---	---	---	86.7	35	8.7	51.0	27.8	37.8
CWH095D	2159	---	---	93	---	---	---	81.7	35	9.4	**52.2**	26.5	36.5
HyClass110W	2153	190	1172	92	---	---	---	90.0	35	8.7	50.3	27.9	36.7
DKW46-15	2126	175	1150	91	---	---	---	78.3	35	9.2	50.6	27.0	**38.7**
CWH111	2109	545	1327	90	---	---	---	93.3	35	8.9	**52.0**	26.7	37.7
Hornet	2085	721	1403	89	---	---	---	83.3	37	9.0	**52.0**	25.5	38.3
CWH633	1954	167	1061	84	---	---	---	80.0	35	9.8	50.8	27.8	37.6

Table 24. Results for the 2009 National Winter Canola Variety Trial at Enid, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Bloom (% of open buds)	Plant Height	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(4/15/09)	(in.)	(%)	(lb/bu)	(%)	(%)
DKW47-15	1933	348	1141	83	---	---	---	80.0	37	9.1	50.9	**28.5**	36.8
Sitro	1907	451	1179	82	---	---	---	70.0	37	9.7	51.2	25.5	37.0
HyClass115W	1861	265	1063	80	---	---	---	78.3	36	9.5	50.4	**28.2**	37.5
Hybrisurf	1835	282	1059	79	---	---	---	56.7	39	10.1	51.0	25.6	38.4
DKW41-10	1835	199	1017	79	---	---	---	91.7	32	9.1	50.4	**30.0**	34.7
Hybristar	1792	706	1249	77	---	---	---	63.3	35	9.9	**52.1**	26.7	37.5
AAMU-18-07	1710	---	---	73	---	---	---	91.7	31	9.3	49.0	26.3	37.5
Mean	2330	521	---	---	---	---	---	71.8	39	9.4	51.7	27.0	37.5
CV	10	42	---	---	---	---	---	11.2	5	6.5	1.5	1.9	2.0
LSD (0.05)	395	351	---	---	---	---	---	13.0	3	NS	1.3	0.9	1.2

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

Lahoma, Oklahoma

Raymond Sidwell, Oklahoma State University
Planted: 9/23/2008 at 5 lb/a in 9-in. rows
Swathed: 6/2/2009
Harvested: 6/9/2009
Herbicides: 1 qt/a Treflan
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: NA
Fertilizer: 40-0-0 lb N-P-K fertilizer in fall
80-0-0 lb N-P-K fertilizer in spring
Soil Type: Grant silt loam
Elevation: 1321ft Latitude: 36° 23'N
Comments: Heavy weed pressure reduced yields.

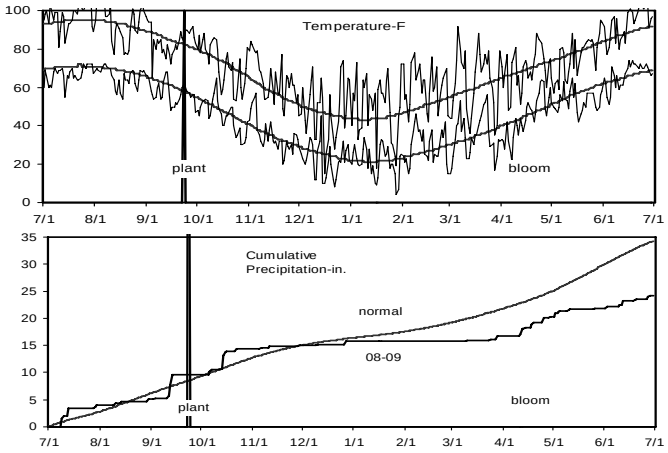


Table 25. Results for the 2009 National Winter Canola Variety Trial at Lahoma, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(%)	(lb/bu)	(%)	(%)
Kronos	**2134**	---	---	127	---	---	---	5.7	7.3	51.9	22.5	40.7
Hybrisurf	**2067**	---	---	123	---	---	---	**7.3**	7.3	51.2	21.0	**43.6**
Dimension	**2066**	---	---	123	---	---	---	**6.7**	6.4	51.8	22.5	**42.0**
CWH095D	**2041**	---	---	122	---	---	---	**7.7**	7.4	50.4	22.2	41.3
CWH101D	**2036**	---	---	121	---	---	---	**7.3**	6.7	50.2	21.7	**42.1**
Hybrilux	**2004**	---	---	119	---	---	---	**8.0**	6.9	50.8	23.3	**41.8**
Flash	**1989**	---	---	118	---	---	---	**7.7**	7.3	51.4	22.0	**42.6**
Safran	**1963**	---	---	117	---	---	---	**7.7**	7.0	51.6	22.9	41.5
45D03	**1963**	---	---	117	---	---	---	**6.3**	7.4	49.0	23.6	40.4
Baldur	**1942**	---	---	116	---	---	---	**6.7**	7.5	51.9	22.1	40.7
46W14	**1940**	---	---	116	---	---	---	**7.3**	6.8	51.8	22.4	**42.4**
Visby	**1931**	---	---	115	---	---	---	6.0	6.4	51.1	23.1	40.8
Sitro	**1919**	---	---	114	---	---	---	**7.0**	6.2	51.8	21.8	**42.2**
NPZ0604	**1839**	---	---	110	---	---	---	**7.0**	6.4	51.1	22.6	**42.4**
46W99	**1830**	---	---	109	---	---	---	**6.7**	6.7	51.6	23.5	41.6
Hybristar	**1812**	---	---	108	---	---	---	**8.3**	6.8	50.4	22.5	41.7
DKW46-15	**1810**	---	---	108	---	---	---	**8.7**	6.8	50.4	24.6	**41.8**
BSX-6406	1775	---	---	106	---	---	---	**8.0**	6.8	48.8	24.6	39.9
KS3254	1774	---	---	106	---	---	---	**6.3**	6.8	51.2	23.8	41.0
KS3074	1736	---	---	103	---	---	---	**6.7**	7.1	50.9	24.0	41.5
HyClass154W	1730	---	---	103	---	---	---	**7.0**	7.3	51.3	24.4	39.0
ARC00024-2	1713	---	---	102	---	---	---	4.7	7.2	51.9	**24.7**	39.8
DKW47-15	1701	---	---	101	---	---	---	**7.3**	6.8	50.6	**24.7**	41.0
Wichita	1687	---	---	100	---	---	---	**7.0**	6.7	51.2	**24.8**	40.3
KS4158	1672	---	---	100	---	---	---	**6.7**	6.5	51.2	24.4	41.3
BSX-6242	1670	---	---	100	---	---	---	5.3	6.4	51.6	24.4	41.0
Hornet	1656	---	---	99	---	---	---	**7.3**	7.0	50.7	23.0	41.1
ARC00005-2	1655	---	---	99	---	---	---	**8.3**	7.0	50.6	23.8	40.3
Virginia	1651	---	---	98	---	---	---	**7.7**	6.8	48.9	**24.9**	40.1
KS3132	1641	---	---	98	---	---	---	6.0	7.2	50.7	23.7	40.2
AAMU-33-07	1635	---	---	97	---	---	---	6.0	7.0	48.2	24.3	40.6
KS4085	1619	---	---	96	---	---	---	**6.3**	6.4	51.2	**25.1**	40.9
KS3077	1593	---	---	95	---	---	---	**7.3**	7.2	50.2	24.1	40.9
ARC2189-2	1584	---	---	94	---	---	---	**7.3**	6.9	47.8	23.7	40.2
ARC00004-2	1577	---	---	94	---	---	---	**6.7**	7.1	51.2	24.4	39.1
HyClass110W	1576	---	---	94	---	---	---	**8.3**	6.9	50.9	**25.0**	40.6
HyClass107W	1557	---	---	93	---	---	---	5.0	6.7	50.1	**25.3**	41.1
CWH633	1522	---	---	91	---	---	---	**7.3**	6.6	48.1	**24.7**	40.6
Kiowa	1470	---	---	88	---	---	---	4.0	6.8	51.8	24.2	40.6
KS4022	1434	---	---	85	---	---	---	4.7	6.6	50.6	24.4	40.9
Kadore	1402	---	---	84	---	---	---	6.0	7.1	51.8	23.6	39.0
BSX-501	1398	---	---	83	---	---	---	**6.3**	7.0	50.5	**24.7**	40.4
BSX-6271	1395	---	---	83	---	---	---	**8.0**	6.9	50.5	24.0	41.1
Hybrigold	1389	---	---	83	---	---	---	**7.0**	7.0	51.2	23.6	39.7
Sumner	1380	---	---	82	---	---	---	4.0	6.5	51.4	**25.5**	40.8
DKW41-10	1360	---	---	81	---	---	---	**7.3**	7.3	52.1	**27.1**	39.4

Table 25. Results for the 2009 National Winter Canola Variety Trial at Lahoma, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(%)	(lb/bu)	(%)	(%)
HyClass115W	1358	---	---	81	---	---	---	3.0	6.8	51.3	24.2	41.5
BSX-6131	1346	---	---	80	---	---	---	6.0	7.0	51.4	**25.7**	39.9
DKW45-10	1308	---	---	78	---	---	---	**6.7**	6.9	51.0	**25.0**	40.7
AAMU-18-07	1245	---	---	74	---	---	---	**8.3**	7.2	46.6	24.5	39.5
CWH111	1116	---	---	66	---	---	---	**8.0**	6.8	50.2	**26.2**	36.6
Mean	1679	---	---	---	---	---	---	6.7	6.9	50.7	23.9	40.8
CV	12	---	---	---	---	---	---	22.5	6.0	3.7	2.3	2.3
LSD (0.05)	327	---	---	---	---	---	---	2.5	0.7	NS	1.1	1.9

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

Weatherford, Oklahoma

Shane O'Daniel, Canola Producer
Planted: 9/24/2008 at 5 lb/a in 9-in. rows
Harvested: 6/9/2009
Herbicides: None
Insecticides: None
Irrigation: None
Previous Crop: Wheat
Soil Test: NA
Fertilizer: NA
Soil Type: NA
Elevation: 1605 ft Latitude: 35° 54'N
Comments: A hard spring freeze at flowering significantly reduced yields.

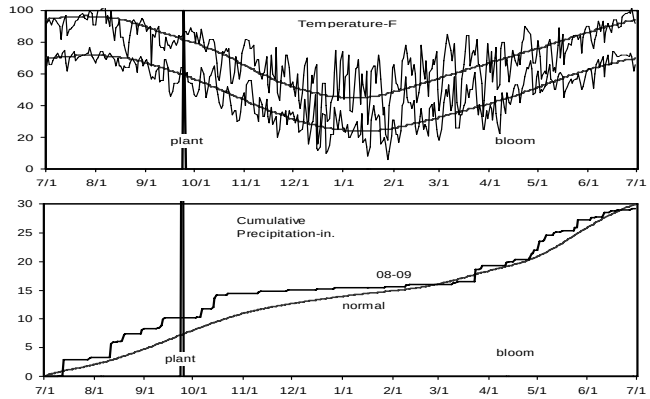


Table 26. Results for the 2009 National Winter Canola Variety Trial at Weatherford, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Freeze Damage[1]	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(1-5)	(%)	(%)	(lb/bu)	(%)	(%)
Safran	**1584**	---	---	140	98	---	---	**9.0**	**2.0**	0.0	8.4	**50.1**	21.2	**42.6**
Kadore	**1482**	---	---	131	100	---	---	**8.3**	**1.3**	0.0	9.3	**49.2**	23.0	40.2
BSX-501	**1424**	---	---	126	99	---	---	**8.7**	**2.0**	0.0	7.6	**48.8**	24.5	39.8
Hornet	**1366**	---	---	121	100	---	---	**9.3**	2.7	0.0	8.5	**49.4**	21.2	**42.5**
46W99	**1361**	---	---	120	100	---	---	**8.7**	3.7	2.0	9.6	**48.6**	22.4	42.0
Kronos	**1350**	---	---	119	99	---	---	7.3	**2.0**	1.7	10.1	**50.4**	22.0	40.7
HyClass154W	**1341**	---	---	118	99	---	---	**8.7**	**2.0**	0.0	8.9	**49.4**	23.4	41.4
BSX-6131	**1322**	---	---	117	99	---	---	**9.0**	2.7	0.3	8.5	**50.1**	**25.7**	39.9
Baldur	**1310**	---	---	116	99	---	---	**8.7**	2.7	1.7	8.5	**49.8**	21.3	41.7
CWH101D	**1304**	---	---	115	99	---	---	**8.7**	3.0	0.0	8.4	**49.3**	21.4	41.4
Rossini	**1298**	---	---	115	99	---	---	**8.7**	2.7	0.0	7.8	**48.4**	24.1	40.8
Flash	**1293**	---	---	114	99	---	---	**9.0**	2.3	0.0	8.8	**49.7**	20.8	**44.6**
KS4158	1275	---	---	113	99	---	---	**9.0**	2.3	1.7	7.8	**50.1**	23.6	41.5
Sitro	1258	---	---	111	99	---	---	**8.7**	3.3	0.0	8.8	**49.4**	21.5	40.1
ARC2189-2	1256	---	---	111	99	---	---	**9.0**	**2.0**	0.3	8.3	**48.3**	23.6	41.1
45D03	1243	---	---	110	98	---	---	**8.7**	**2.0**	0.0	10.7	**49.3**	21.1	**43.1**
KS3132	1233	---	---	109	99	---	---	**9.0**	**1.7**	1.7	8.1	**48.9**	23.3	39.6
KS3254	1223	---	---	108	99	---	---	**9.3**	**2.0**	0.0	8.7	**48.9**	23.6	40.4
BSX-6271	1221	---	---	108	100	---	---	**8.3**	**2.0**	3.3	8.9	**50.0**	24.4	40.7
CWH095D	1216	---	---	107	99	---	---	**9.3**	**2.0**	0.0	9.5	**48.4**	22.5	41.0
BSX-6406	1199	---	---	106	98	---	---	**9.0**	2.3	0.0	8.5	**48.9**	23.2	41.0
KS3074	1197	---	---	106	100	---	---	**9.0**	**2.0**	3.3	8.1	**49.0**	23.1	40.3
HyClass107W	1191	---	---	105	98	---	---	7.7	2.3	0.0	7.9	**48.4**	**25.2**	40.0
BSX-6242	1171	---	---	103	98	---	---	**8.7**	2.3	0.3	8.3	47.4	23.9	40.2
DKW46-15	1156	---	---	102	98	---	---	**8.7**	2.3	0.0	8.2	47.9	23.6	**42.1**
CWH633	1149	---	---	101	99	---	---	**8.7**	3.3	0.0	8.6	**49.3**	23.8	40.4
ARC00005-2	1148	---	---	101	100	---	---	**9.0**	2.7	2.7	10.1	**48.9**	23.4	40.2
Hybristar	1128	---	---	100	99	---	---	**9.0**	2.7	0.0	9.3	48.1	22.4	40.9
Hearty	1107	---	---	98	100	---	---	**9.0**	3.3	0.0	8.0	**50.0**	23.8	40.9
Hybrilux	1098	---	---	97	99	---	---	**9.0**	3.3	0.0	10.8	45.9	23.6	40.0
DKW45-10	1082	---	---	96	99	---	---	7.7	4.3	0.0	9.2	**49.1**	24.4	40.8
Virginia	1078	---	---	95	96	---	---	**8.7**	2.7	0.0	8.4	**48.6**	24.0	39.5
Kiowa	1066	---	---	94	99	---	---	**8.7**	**2.0**	0.0	9.1	47.3	23.7	39.9
46W14	1064	---	---	94	99	---	---	**9.0**	4.0	0.3	11.2	47.7	21.3	**43.0**
HyClass115W	1062	---	---	94	100	---	---	5.7	3.7	0.0	8.0	**49.2**	24.0	40.7
KS4022	1058	---	---	94	99	---	---	**8.7**	**2.0**	0.0	8.3	**48.9**	23.9	35.5
AAMU-33-07	1054	---	---	93	99	---	---	**9.0**	3.0	0.0	8.7	47.9	23.2	38.9
Wichita	1050	---	---	93	98	---	---	**8.7**	**2.0**	0.3	8.0	**48.6**	24.0	40.2
DKW47-15	1048	---	---	93	99	---	---	**8.3**	2.7	0.0	7.6	**48.4**	24.6	40.7
NPZ0604	1009	---	---	89	98	---	---	**8.7**	4.3	1.7	8.0	**48.7**	21.4	40.9
ARC00004-2	998	---	---	88	96	---	---	**8.3**	3.0	0.0	11.7	48.2	24.0	40.0
Hybrisurf	996	---	---	88	98	---	---	**8.7**	3.0	0.0	11.1	47.7	22.1	**42.1**
KS4085	976	---	---	86	99	---	---	**8.7**	**2.0**	0.0	9.6	**48.3**	24.1	39.8
Dimension	917	---	---	81	95	---	---	8.0	4.7	1.7	10.9	46.7	22.7	40.5
Sumner	892	---	---	79	100	---	---	**8.3**	3.0	1.7	8.1	48.0	**25.1**	37.5
Hybrigold	863	---	---	76	99	---	---	**9.0**	2.3	0.0	10.0	48.1	22.6	41.3

Table 26. Results for the 2009 National Winter Canola Variety Trial at Weatherford, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	Freeze Damage[1]	Shatter	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(1-5)	(%)	(%)	(lb/bu)	(%)	(%)
ARC00024-2	862	---	---	76	98	---	---	**8.7**	3.0	0.0	13.1	45.6	24.3	40.6
HyClass110W	821	---	---	73	98	---	---	**8.3**	5.0	0.0	10.0	47.3	**25.1**	39.4
DKW41-10	758	---	---	67	96	---	---	**8.7**	4.7	2.0	9.4	**49.0**	**25.9**	37.1
CWH111	704	---	---	62	100	---	---	**9.0**	4.7	1.7	12.9	45.3	24.5	38.3
AAMU-18-07	459	---	---	41	96	---	---	7.7	5.0	0.0	8.3	46.7	**24.8**	33.4
Mean	1132	---	---	---	99	---	---	8.6	2.8	0.6	9.1	48.5	23.3	40.4
CV	17	---	---	---	2	---	---	7.6	16.9	246.0	10.7	2.7	2.9	3.8
LSD (0.05)	306	---	---	---	NS	---	---	1.1	0.8	NS	1.6	2.1	1.1	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. [1] Freeze damage rating on a scale from 1=no damage to 5=severe.

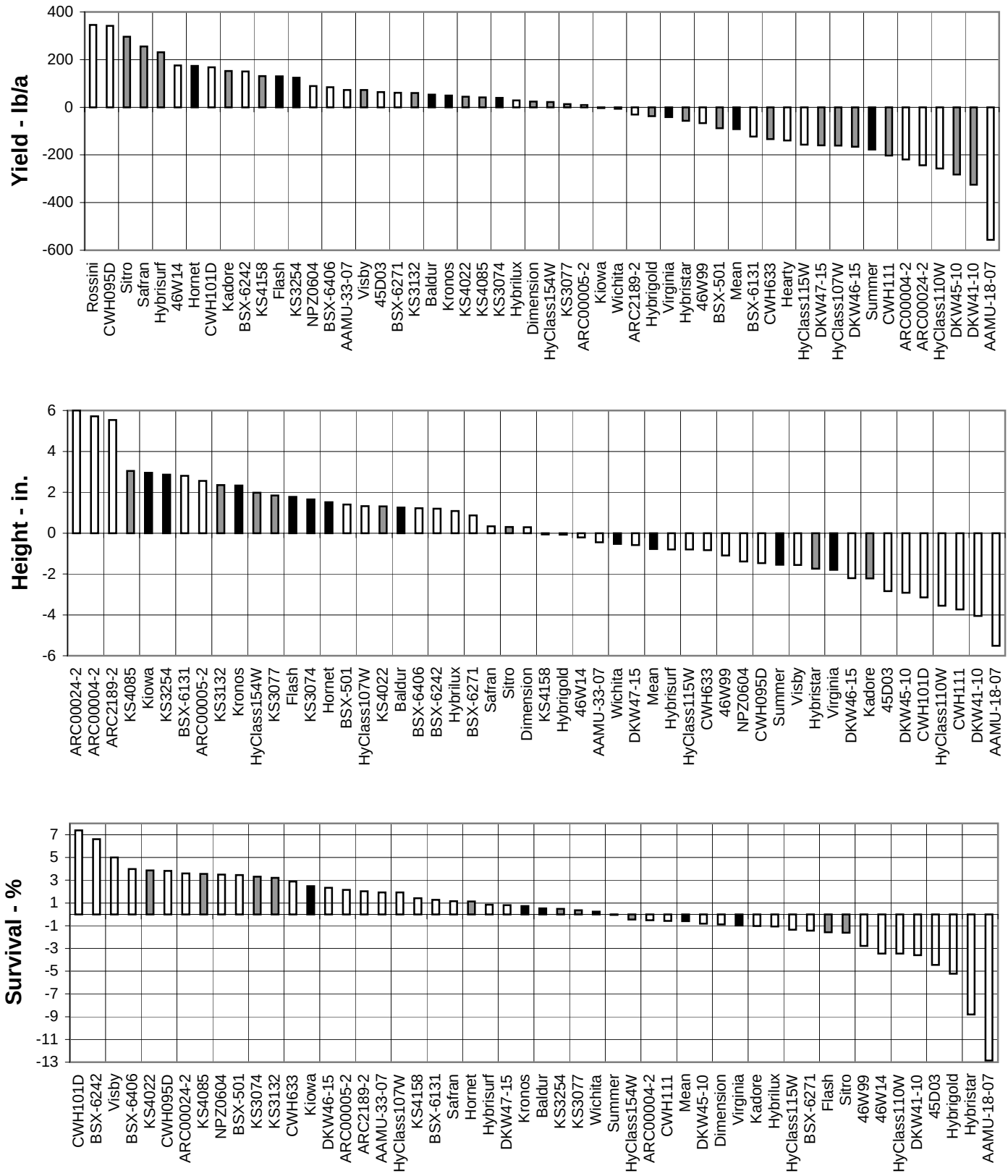
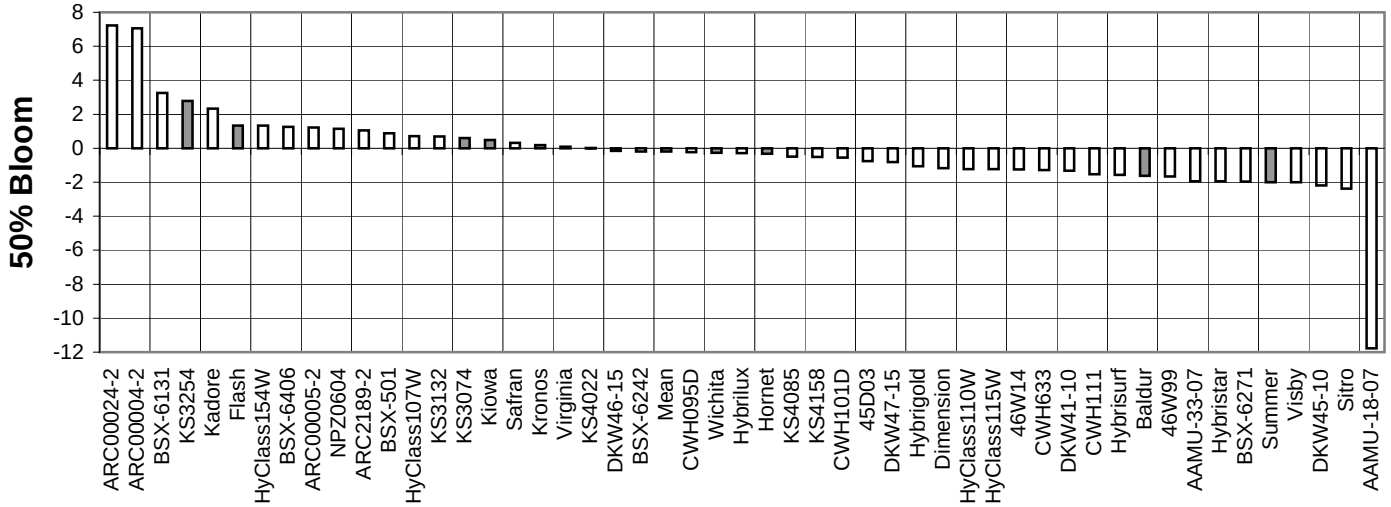
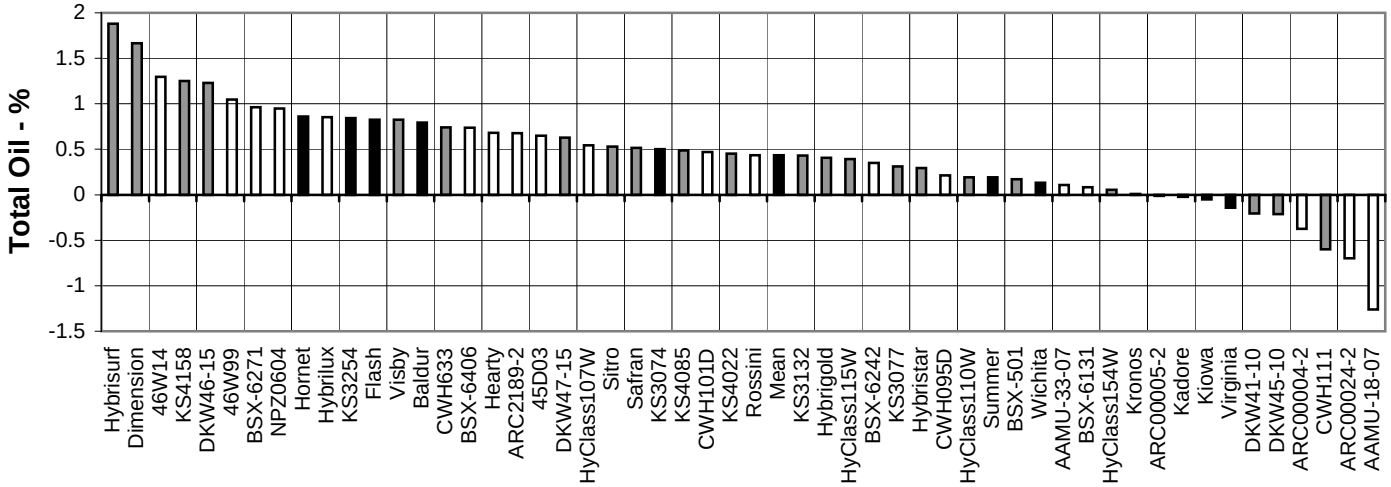


Figure 3. Great Plains Winter Canola Summary, 2005-2009.





Note: Values are 5-year moving averages of the differences between each cultivar and the mean of Kronos, Virginia, and Wichita for yield (lb/a), winter survival (%), plant height (in.), 50% bloom date (days), and total oil content (%). The number of observations for each trait is represented by the different colored bars (shown at right).

Figure 3. Great Plains Winter Canola Summary, 2005-2009 (continued).

Scot Hulbert, Washington State University
Planted: 9/22/2008 at 5 lb/a
Harvested: 7/24/2009
Herbicides: Assure II
Insecticides: None
Irrigation: Yes
Previous Crop: Spring barley
Soil Test: NA
Fertilizer: 100-20-0-20 lb N-P-K-S fertilizer

Soil Type: Othello silt loam
Elevation: 1099 ft Latitude: 46° 48'N
Comments:

Othello, Washington

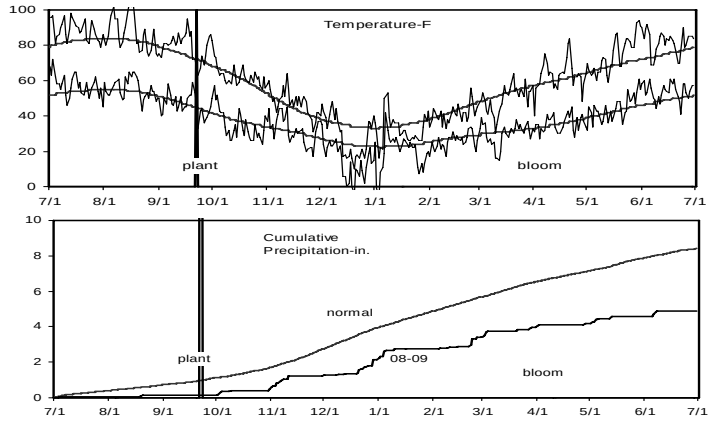


Table 27. Results for the 2009 National Winter Canola Variety Trial at Othello, WA

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(%)	(lb/bu)	(%)	(%)
Hornet	**3622**	**4663**	4142	158	---	---	---	---	---	---	---	20.6	**43.7**
Flash	**3169**	3439	3304	138	---	---	---	---	---	---	---	20.9	**44.5**
Safran	**3138**	**5128**	4133	137	---	---	---	---	---	---	---	20.9	**44.8**
Sitro	**3077**	**4732**	3905	134	---	---	---	---	---	---	---	22.8	41.9
Falstaf	**3043**	3567	3305	133	---	---	---	---	---	---	---	22.3	**43.5**
Hybristar	**3023**	**4707**	3865	132	---	---	---	---	---	---	---	19.9	**45.7**
KS3302	**2931**	---	---	128	---	---	---	---	---	---	---	23.0	**43.5**
Hybrisurf	**2920**	**5172**	4046	127	---	---	---	---	---	---	---	20.2	**45.6**
CWH101D	**2904**	---	---	127	---	---	---	---	---	---	---	19.5	**45.7**
Virginia	**2902**	**4439**	3671	127	---	---	---	---	---	---	---	23.4	41.7
45D03	**2887**	---	---	126	---	---	---	---	---	---	---	22.5	**43.1**
Visby	**2815**	---	---	123	---	---	---	---	---	---	---	19.5	**46.4**
HyClass154W	**2799**	**5201**	4000	122	---	---	---	---	---	---	---	21.1	**44.0**
Hyclass110W	**2708**	4154	3431	118	---	---	---	---	---	---	---	21.9	**43.9**
CWH095D	**2701**	4080	3390	118	---	---	---	---	---	---	---	20.8	**44.9**
AAMU-18-07	**2695**	---	---	118	---	---	---	---	---	---	---	22.5	**43.5**
Rossini	**2648**	---	---	116	---	---	---	---	---	---	---	21.6	**44.9**
KS3077	2556	3956	3256	112	---	---	---	---	---	---	---	**24.2**	42.3
AAMU-33-07	2544	---	---	111	---	---	---	---	---	---	---	22.2	**43.9**
ARC00024-2	2524	---	---	110	---	---	---	---	---	---	---	23.4	42.2
KS3132	2502	4326	3414	109	---	---	---	---	---	---	---	21.2	**44.8**
Hybrigold	2496	**4432**	3464	109	---	---	---	---	---	---	---	22.0	**43.3**
NPZ0604	2469	---	---	108	---	---	---	---	---	---	---	21.7	**43.5**
06.UI.WC.1	2443	3981	3212	107	---	---	---	---	---	---	---	22.1	**43.0**
Dimension	2440	**4672**	3556	106	---	---	---	---	---	---	---	20.7	**45.2**
Baldur	2435	4308	3371	106	---	---	---	---	---	---	---	19.9	**45.0**
CWH111	2417	4756	3587	106	---	---	---	---	---	---	---	22.8	**43.8**
Kiowa	2394	**4630**	3512	104	---	---	---	---	---	---	---	**24.4**	41.2
BSX-6271	2392	---	---	104	---	---	---	---	---	---	---	**24.7**	42.4
KS3254	2378	3672	3025	104	---	---	---	---	---	---	---	22.4	**43.1**
BSX-501	2333	---	---	102	---	---	---	---	---	---	---	**24.4**	40.9
DKW45-10	2321	**4409**	3365	101	---	---	---	---	---	---	---	22.6	**43.2**
KS3074	2280	3529	2904	100	---	---	---	---	---	---	---	22.0	**43.8**
BSX-6406	2270	---	---	99	---	---	---	---	---	---	---	21.8	**44.7**
Wichita	2242	4240	3241	98	---	---	---	---	---	---	---	**25.8**	39.9
06.UI.WC.5	2240	3898	3069	98	---	---	---	---	---	---	---	20.9	**44.2**
CWH633	2232	4213	3223	97	---	---	---	---	---	---	---	23.1	**43.6**
KS4158	2211	4036	3123	96	---	---	---	---	---	---	---	**23.6**	**42.8**
ARC00004-2	2179	---	---	95	---	---	---	---	---	---	---	22.8	**43.4**
KS4022	2176	3738	2957	95	---	---	---	---	---	---	---	**24.0**	41.6
KS4085	2141	4320	3230	93	---	---	---	---	---	---	---	**24.1**	41.6
Kronos	2104	3902	3003	92	---	---	---	---	---	---	---	21.2	**43.2**
DKW46-15	2090	**4430**	3260	91	---	---	---	---	---	---	---	20.8	**45.4**
BSX-6242	2086	---	---	91	---	---	---	---	---	---	---	22.0	**43.5**
46W14	2078	---	---	91	---	---	---	---	---	---	---	23.1	42.1

Table 27. Results for the 2009 National Winter Canola Variety Trial at Othello, WA

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Moist.	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(%)	(lb/bu)	(%)	(%)
BSX-6131	2075	---	---	91	---	---	---	---	---	---	---	22.6	**43.2**
Hybrilux	2072	---	---	90	---	---	---	---	---	---	---	20.3	**45.5**
Sumner	2063	3545	2804	90	---	---	---	---	---	---	---	**24.1**	42.4
UI.WH.5.2	2014	3511	2763	88	---	---	---	---	---	---	---	21.4	**46.0**
DKW41-10	1944	4207	3075	85	---	---	---	---	---	---	---	**23.9**	42.4
Kadore	1928	**4653**	3291	84	---	---	---	---	---	---	---	23.3	41.0
ARC2189-2	1923	---	---	84	---	---	---	---	---	---	---	23.0	**42.8**
46W99	1901	---	---	83	---	---	---	---	---	---	---	19.9	**45.2**
ARC00005-2	1863	---	---	81	---	---	---	---	---	---	---	21.0	**44.2**
Camas+Zeba	1835	---	---	80	---	---	---	---	---	---	---	**24.2**	41.7
DKW47-15	1819	4063	2941	79	---	---	---	---	---	---	---	22.5	**43.5**
Athena	1794	4264	3029	78	---	---	---	---	---	---	---	**25.6**	40.3
HyClass115W	1776	3829	2803	78	---	---	---	---	---	---	---	22.3	**44.0**
Gospel	1717	2732	2224	75	---	---	---	---	---	---	---	22.3	42.2
UI.WH.5.1	1696	3764	2730	74	---	---	---	---	---	---	---	21.9	**44.7**
Largo	1642	---	---	72	---	---	---	---	---	---	---	**27.0**	38.4
HyClass107W	1639	---	---	72	---	---	---	---	---	---	---	22.5	**44.0**
Ericka	1624	3388	2506	71	---	---	---	---	---	---	---	22.0	**42.9**
Salute	1561	1547	1554	68	---	---	---	---	---	---	---	**26.1**	39.1
Hearty	1509	---	---	66	---	---	---	---	---	---	---	21.3	**45.6**
Rattler	1509	---	---	66	---	---	---	---	---	---	---	22.2	42.0
Rapier	1479	3413	2446	65	---	---	---	---	---	---	---	23.3	42.1
Camas	1448	---	---	63	---	---	---	---	---	---	---	22.1	**43.9**
Mean	2291	3988	---	---	---	---	---	---	---	---	---	22.4	43.3
CV	28	14	---	---	---	---	---	---	---	---	---	7.8	4.2
LSD (0.05)	1032	871	---	---	---	---	---	---	---	---	---	3.5	3.7

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

Lingle, Wyoming

Jerry Nachtman and Jim Krall, University of Wyoming
Planted: 9/4/2008 at 6 lb/a in 14-in. rows
Harvested: 7/23/2009
Herbicides: Treflan HFP 1 qt/a
Insecticides: None
Irrigation: Yes
Previous Crop: Dry beans
Soil Test: NA
Fertilizer: NA

Soil Type: Harverson silt loam
Elevation: 4172 ft Latitude: 42° 07'N
Comments:

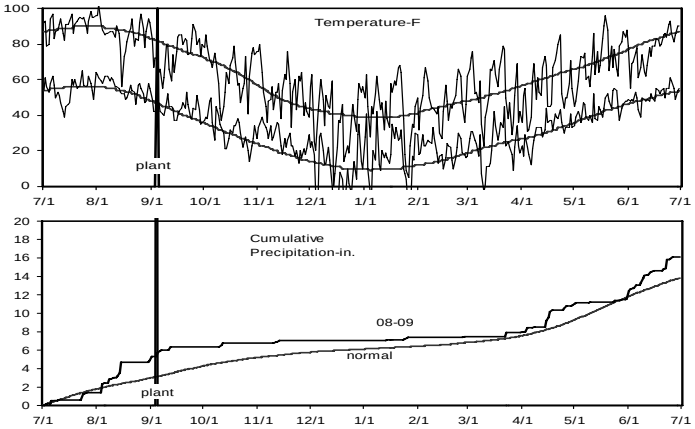


Table 28. Results for the 2009 National Winter Canola Variety Trial at Lingle, WY

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Test Weight	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(in)	(lb/bu)	(%)	(%)
NPZ0604	**3779**	---	---	130	**96**	---	---	9.3	134	46	---	20.1	45.0
Hybrilux	**3654**	---	---	126	85	---	---	9.0	139	52	---	22.3	43.0
KS4158	**3275**	2348	2812	113	**93**	**93**	93	9.3	137	45	---	19.3	46.1
Safran	**3231**	2374	2802	112	87	87	87	9.3	137	43	---	19.3	44.4
Visby	**3228**	2343	2786	111	**95**	**96**	96	8.8	133	42	---	19.9	43.6
BSX-6271	**3170**	---	---	109	**93**	---	---	9.0	136	46	---	21.2	43.9
KS3074	**3148**	**2479**	2813	109	**93**	**95**	---	9.5	137	49	---	20.8	43.9
ARC00024-2	**3122**	---	---	108	**92**	---	---	9.0	140	49	---	21.7	41.7
Kronos	3076	**2835**	2956	106	**92**	**95**	93	8.7	136	50	---	18.6	44.9
Virginia	3070	1736	2403	106	**95**	**96**	96	9.2	138	44	---	21.5	42.5
KS4022	3023	2175	2599	104	**95**	**96**	96	9.5	136	48	---	21.1	42.5
Flash	3018	1668	2343	104	83	82	83	9.2	140	48	---	19.4	43.9
Hornet	2975	---	---	103	**94**	---	---	8.5	138	48	---	17.3	45.2
46W99	2973	---	---	103	85	---	---	9.2	138	42	---	19.3	45.5
BSX-501	2961	---	---	102	**95**	---	---	9.5	138	48	---	20.9	43.5
Hybristar	2939	**2417**	2678	101	82	**91**	86	9.3	138	41	---	19.5	45.1
HyClass154W	2928	2219	2574	101	**90**	**89**	90	9.3	138	50	---	21.3	43.4
KS4085	2918	**2534**	2726	101	**96**	**97**	97	9.4	136	47	---	21.3	42.9
Kadore	2913	**2917**	2915	101	**93**	95	94	9.3	138	40	---	20.0	43.3
45D03	2907	---	---	100	**93**	---	---	9.0	138	42	---	19.0	45.4
KS3254	2890	2178	2534	100	**95**	**96**	96	9.5	138	45	---	20.3	44.1
Sitro	2837	2392	2615	98	82	92	87	8.4	138	43	---	18.3	45.0
ARC00004-2	2833	---	---	98	**94**	---	---	9.2	139	50	---	20.8	42.9
Kiowa	2831	**2506**	2668	98	**95**	**96**	96	9.2	137	47	---	21.2	42.2
KS3132	2824	2263	2543	97	**96**	**95**	96	9.0	137	49	---	19.7	44.1
BSX-6242	2816	---	---	97	**95**	---	---	9.2	136	46	---	20.4	43.9
BSX-6406	2800	---	---	97	**95**	---	---	9.5	137	46	---	20.1	44.5
ARC00005-2	2770	---	---	96	**92**	---	---	9.2	138	47	---	19.2	44.5
Baldur	2742	2308	2525	95	**93**	**92**	93	9.0	136	47	---	19.1	44.5
AAMU-33-07	2725	---	---	94	**90**	---	---	9.3	137	42	---	21.9	42.1
Hybrigold	2723	2037	2380	94	75	82	79	9.3	140	47	---	22.5	42.1
Wichita	2615	1719	2167	90	**95**	**96**	96	9.0	137	45	---	20.5	43.7
Hybrisurf	2610	2210	2410	90	87	82	84	9.3	140	46	---	18.9	43.3
Dimension	2551	1722	2137	88	82	87	84	8.8	140	42	---	19.0	46.2
ARC2189-2	2487	---	---	86	**92**	---	---	9.5	137	48	---	19.8	43.8
AAMU-18-07	2463	---	---	85	88	---	---	8.7	136	39	---	20.6	43.7
Sumner	2424	1857	2140	84	**95**	**90**	93	8.7	135	43	---	20.1	43.0
BSX-6131	2395	---	---	83	**96**	---	---	9.3	137	47	---	20.4	43.8
46W14	2346	---	---	81	82	---	---	9.2	141	46	---	20.8	43.9
Mean	2897	2200	---	---	91	92	---	9.1	137	46	---	20.2	43.8
CV	14	14	---	---	5	6	---	4.5	6	6	---	7.3	2.7
LSD (0.05)	675	502	---	---	7	9	---	NS	2	4	---	NS	NS

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% or more plants have one or more open flowers.

Charile Rife, Canola Breeder

Planted: 9/22/2008 at 5 lb/a
Harvested: 9/2/2009
Herbicides: Treflan 1.25 pt/a
Insecticides: None
Irrigation: 12 in.
Previous Crop: Alfalfa
Soil Test: NA
Fertilizer: 30-40-40-30 lb N-P-K-S fertilizer in fall
90-0-0 lb N-P-K fertilizer in spring
Soil Type: Dunday and Dwyer loamy fine sands
Elevation: 4104 ft Latitude: 42° 06'N
Comments:

Torrington, Wyoming

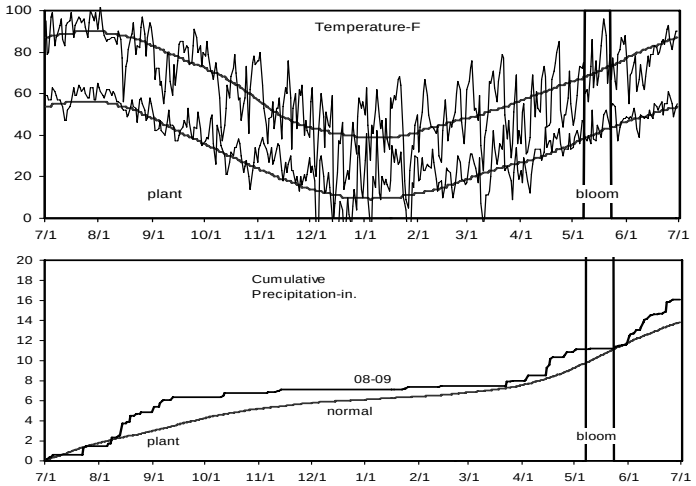


Table 29. Results for the 2009 National Winter Canola Variety Trial at Torrington, WY

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Fall Stand	50% Bloom	Plant Height	Shatter	Moist.	Protein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(%)	(d)	(in)	(%)	(%)	(%)	(%)
Kadore	**3833**	**3840**	3837	142	**85**	**86**	85	77	134	38	1.3	7.4	24.3	40.3
BSX-6131	**3370**	---	---	125	**97**	---	---	77	133	41	2.3	6.4	25.9	40.1
Safran	**3305**	---	---	123	80	---	---	73	135	39	0.7	9.0	25.0	40.5
Hornet	**3231**	3112		120	**88**	**84**	86	73	133	39	0.0	7.9	22.6	**42.5**
Visby	**3227**	3297	3262	120	**92**	**87**	89	57	130	39	1.3	7.5	24.2	40.6
Wichita	3174	3142	3158	118	**90**	**90**	90	77	131	38	1.7	7.1	25.4	40.2
KS4022	3164	3318	3241	117	**98**	**97**	97	73	129	41	1.3	7.8	25.7	40.0
BSX-501	3131	3020	3076	116	**93**	**91**	92	80	135	38	0.3	8.5	26.0	39.9
KS3074	3103	3193	3148	115	**92**	**90**	91	83	133	38	1.3	7.2	25.6	40.5
Kronos	3086	3219	3152	115	**88**	**80**	84	67	135	44	2.0	8.0	24.8	39.5
KS4158	3061	3310	3186	114	**88**	**88**	88	73	131	40	1.0	7.6	25.8	39.3
KS3254	3040	3230	3135	113	**87**	**86**	86	83	134	42	1.3	7.5	25.1	40.0
BSX-6242	3028	---	---	112	**95**	---	---	73	128	38	1.3	6.6	25.8	39.6
KS3132	3005	3121	3063	112	90	**88**	89	77	133	40	2.3	7.3	24.4	40.8
BSX-6271	2941	---	---	109	92	---	---	80	130	41	2.0	7.1	25.1	41.0
BSX-6406	2880	---	---	107	93	---	---	77	134	41	2.0	7.3	26.4	39.6
KS4085	2774	3085	2929	103	95	**95**	95	67	132	41	2.0	7.1	26.5	40.1
Sitro	2712	2676	2694	101	65	65	65	80	136	36	1.0	8.5	25.2	39.7
45D03	2655	---	---	99	73	---	---	80	141	44	2.0	10.9	25.2	40.4
46W14	2628	---	---	98	55	---	---	80	142	41	2.3	10.6	25.6	39.7
Baldur	2625	3003	2814	97	**87**	**82**	84	73	135	40	1.3	8.4	24.9	39.5
Sumner	2616	2599	2607	97	**90**	**89**	90	70	130	35	3.3	7.0	27.2	40.0
ARC00005-2	2571	---	---	95	73	---	---	77	138	45	3.0	10.4	26.1	38.9
Kiowa	2418	---	---	90	77	---	---	73	134	39	2.0	8.0	26.0	39.5
Hybristar	2413	2322	2367	90	57	45	51	77	138	38	2.0	8.9	27.6	38.4
AAMU-33-07	2384	---	---	89	70	---	---	73	137	40	3.3	7.6	26.1	38.8
Dimension	2343	---	---	87	70	---	---	77	142	43	3.3	9.4	25.3	40.9
Hybrilux	2289	---	---	85	68	---	---	73	139	45	1.7	10.2	27.7	39.1
ARC00004-2	2279	---	---	85	72	---	---	83	141	43	2.3	9.1	27.2	37.8
Hybrisurf	2247	---	---	83	40	---	---	80	143	45	3.7	9.6	25.4	40.2
ARC2189-2	2228	---	---	83	48	---	---	80	138	42	3.7	9.7	26.4	39.1
ARC00024-2	2050	---	---	76	58	---	---	77	143	46	1.7	11.6	**28.5**	36.5
Hybrigold	1991	---	---	74	73	---	---	70	140	41	2.3	10.0	27.7	38.1
Flash	1976	1660	1818	73	50	43	47	77	138	46	1.0	13.1	26.4	39.5
Virginia	1949	1879	1914	72	53	42	47	70	141	40	2.0	11.0	**28.8**	37.0
AAMU-18-07	1225	---	---	45	33	---	---	73	139	36	2.3	10.9	**28.2**	36.0
Mean	2693	2722	---	---	77	74	---	75	136	41	1.9	8.7	25.9	39.6
CV	14	13	---	---	13	14	---	9	1	5	41.9	14.2	1.8	1.7
LSD (0.05)	621	395	---	---	16	12	---	11	3	4	1.3	2.0	0.8	1.1

Bold - Superior LSD Group - Unless two entries differ by more than the LSD, little confidence can be placed in one being superior to the other. Bloom is recorded as the date after January 1 when 50% of plants have one or more open flowers.

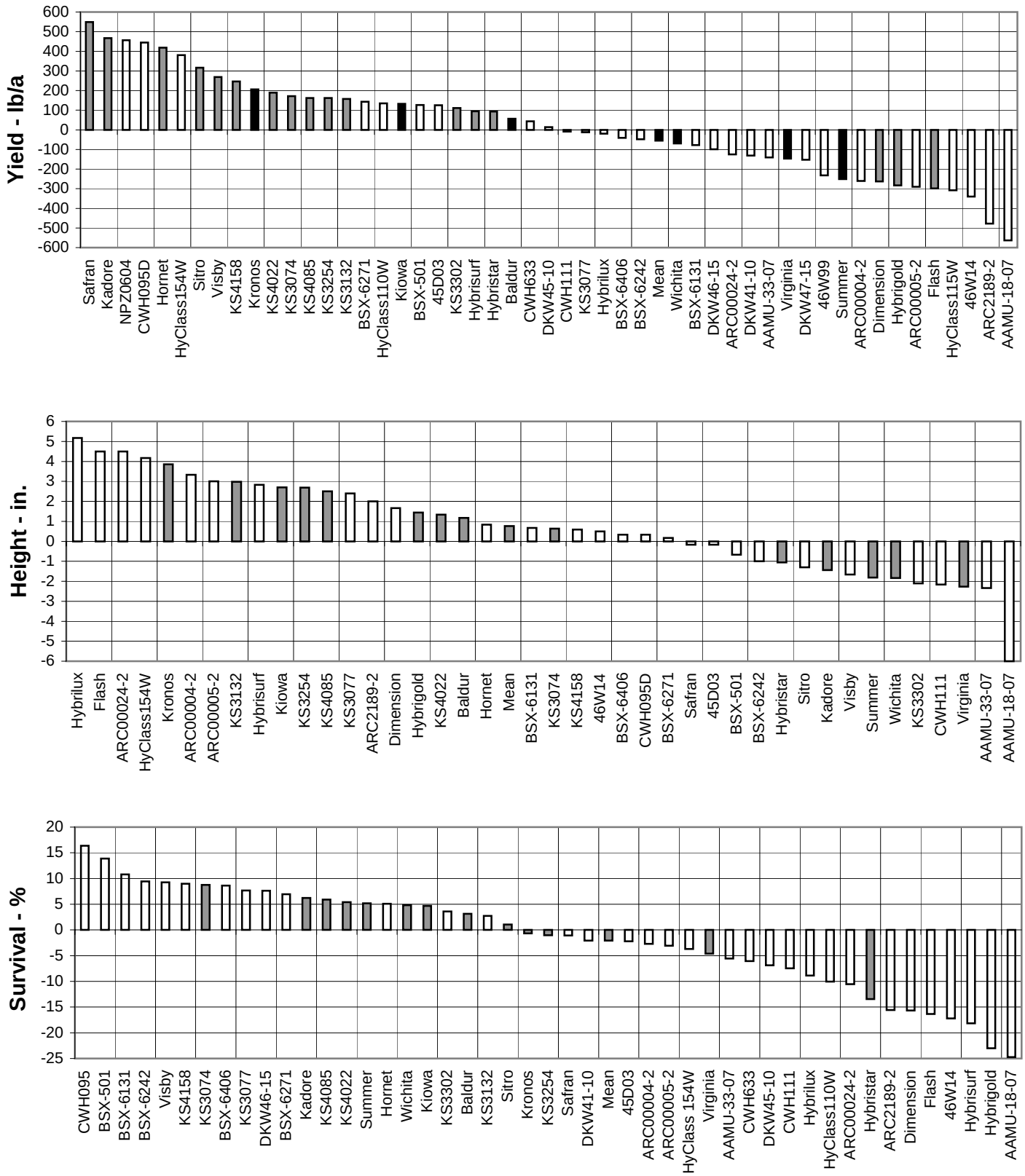
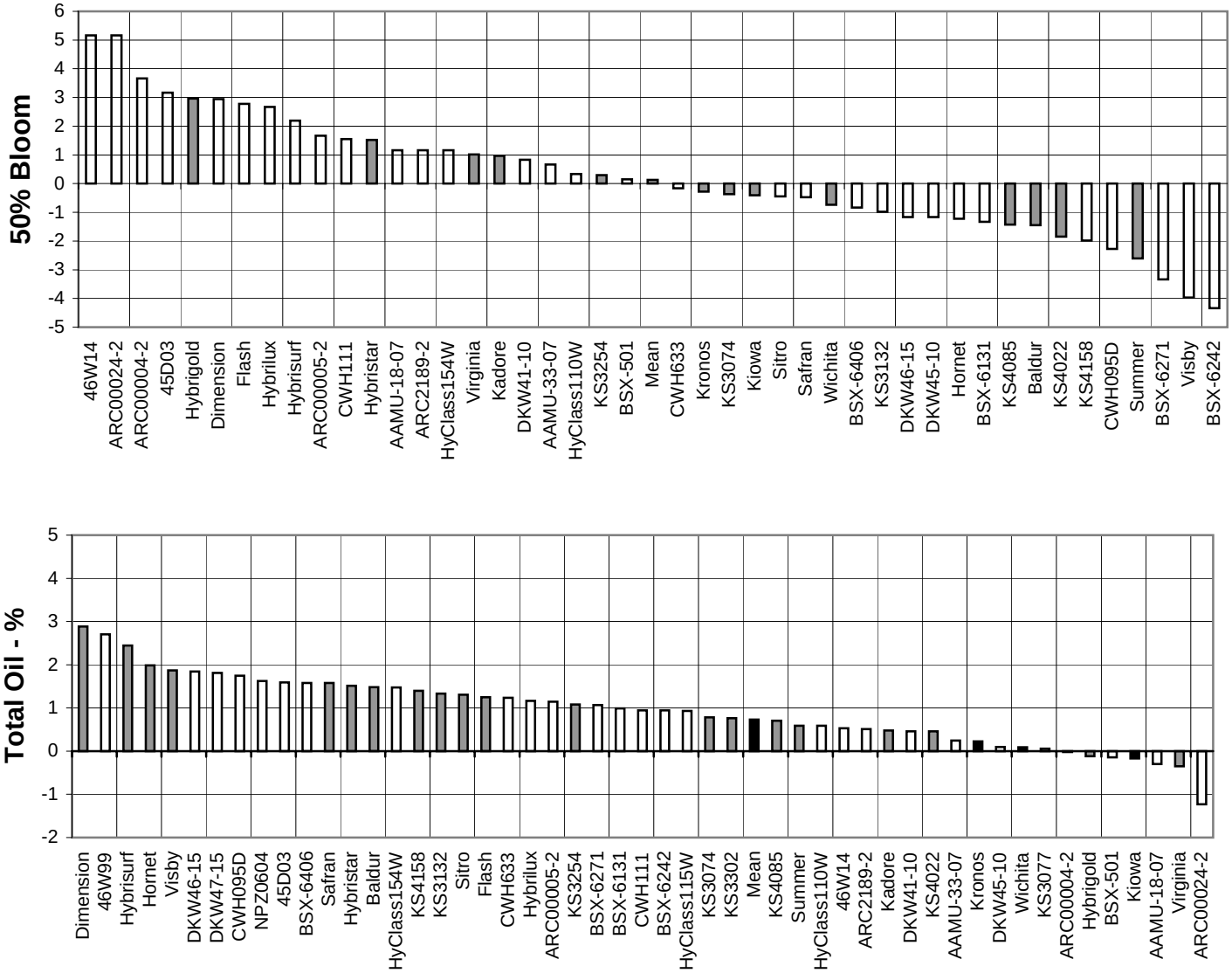


Figure 4. Northern Winter Canola Summary, 2005-2009.



Note: Values are 5-year moving averages of the differences between each cultivar and the mean of Kronos, Virginia, and Wichita for yield (lb/a), winter survival (%), plant height (in.), 50% bloom date (days), and total oil content (%). The number of observations for each trait is represented by the different colored bars (shown at right).

Figure 4. Northern Winter Canola Summary, 2005-2009 (continued).

Table 30. Field Ratings for Resistance to Phoma Blackleg, 2008-2009
National Winter Canola Variety Trial -- Plains, GA

Name	Blackleg[1] 2009	2008	Name	Blackleg[1] 2009	2008
	----% diseased----			----% diseased----	
45D03	**0**	33	Hybrigold	**3**	30
46W14	**3**	27	Hybrilux	**0**	---
46W99	**0**	37	Hybristar	**3**	27
AAMU-18-07	33	---	Hybrisurf	**0**	47
AAMU-33-07	**3**	---	HyClass107W	**0**	73
ARC00004-2	**3**	---	HyClass110W	**3**	27
ARC00005-2	**0**	---	HyClass115W	**0**	20
ARC00024-2	**7**	---	HyClass154W	**0**	**13**
ARC2189-2	**0**	---	Kadore	**0**	20
Baldur	**3**	40	Kiowa	**7**	23
BSX-501	**0**	43	Kronos	**0**	43
BSX-6131	**10**	---	KS3074	**0**	20
BSX-6242	**0**	---	KS3132	**3**	27
BSX-6271	**3**	---	KS3254	**3**	**13**
BSX-6406	**3**	---	KS4022	**0**	33
CWH095D	**0**	43	KS4085	**0**	23
CWH101D	**0**	---	KS4158	**7**	20
CWH111	**7**	40	NPZ0604	**3**	---
CWH633	**3**	---	Oscar[2]	53	83
Cyclone[2]	80	90	Safran	**3**	20
Dimension	**3**	30	Sitro	**0**	37
DKW41-10	**0**	27	Sumner	**10**	23
DKW45-10	**0**	37	Virginia	**7**	47
DKW46-15	**3**	53	Visby	**0**	53
DKW47-15	**0**	40	Westar[2]	73	90
Falcon[2]	**10**	33	Wichita	**7**	30
Flash	**3**	30	Average	7	36
Flint[2]	20	47	LSD	12	19
Hornet	**7**	30			

[1]Blackleg rated as total percentage of plants killed by blackleg or with severe basal stem canker.

[2]Included in test as a blackleg standard.

Bolding indicates entries with blackleg resistance ratings equal to the best rated entry within a column based on Fisher's protected LSD [2008 (P = 0.10); 2009 (P = 0.05)].

NOTE: This nursery was located in the proximity of fields infected with Phoma blackleg the previous season. Disease severity was further increased by spreading infected stubble over the nursery shortly after planting. The trial was planted on 10/23/2008.

Data collected by David Spradlin, The University of Georgia, College of Agricultural and Environmental Sciences, The Georgia Agricultural Experiment Stations. Used with permission.

Table 31. Seed sources for entries in the 2008-2009 National Winter Canola Variety Trial

Brand/Name	Type[1]	Trait[2]	Release Date	Sd Trt[3]
Kansas State University/Oklahoma State University				
2004 Throckmorton Plant Sciences Center				
Manhattan, KS 66506-5501				
Michael Stamm (mjstamm@ksu.edu)				
KS3074	OP	---	---	H
KS3077	OP	---	---	H
KS3132	OP	---	---	H
KS3254	OP	---	---	H
KS3302	OP	---	---	H
KS4022	OP	---	---	H
KS4085	OP	---	---	H
KS4158	OP	---	---	H
Kiowa	OP	---	2008	H
Sumner	OP	SU	2003	H
Wichita	OP	---	1999	H
DL Seeds Inc.				
Kevin McCallum (kevin.mccallum@dlseeds.ca)				
Baldur	Hyb	---	2004	H
Dimension	Hyb	---	2008	H
Flash	Hyb	---	2007	H
Hornet	Hyb	---	2007	H
Kronos	Hyb	---	2003	H
NPZ0604	Hyb	---	---	H
Safran	Hyb	---	2008	H
Sitro	Hyb	---	2007	H
Visby	Hyb	---	2008	H
Blue Sun Biodiesel				
Dr. Charlie Rife (charlie@gobluesun.com)				
BSX-501	OP	IMI	---	H
BSX-6131	OP	---	---	H
BSX-6242	OP	---	---	H
BSX-6271	OP	---	---	H
BSX-6406	OP	---	---	H
MOMONT, France				
Dr. Thierry Momont (tmomont@momont.com)				
Hybrigold	Hyb	---	2008	H
Hybristar	Hyb	---	2006	H
Hybrisurf	Hyb	---	2008	H
Hybrilux	Hyb	---	2008	H
Kadore	OP	---	2007	H
Alabama A&M University				
Dr. Ernst Cebert (ernst.cebert@aamu.edu)				
AAMU-18-07	OP	---	---	H
AAMU-33-07	OP	---	---	H
Pioneer Hi-Bred				
Cole Randol (cole.randol@pioneer.com)				
46W14	Hyb	---	---	H
46W99	Hyb	RR	---	H
45D03	Hyb	---	---	H
University of Arkansas				
Dr. Jim Kelly (jkelly@uark.edu)				
ARC2189-2	OP	---	---	H
ARC00004-2	OP	---	---	H
ARC00005-2	OP	---	---	H
ARC00024-2	OP	---	---	H
Winfield Solutions/Croplan Genetics				
Jay Bjerke (jmberke@landolakes.com)				
HyClass 107W	OP	RR	2007	P
HyClass 110W	OP	RR	2008	P
HyClass 115W	OP	RR/SURT	2008	P
HyClass 154W	Hyb	RR	2008	H
Monsanto Company				
John Fenderson (john.m.fenderson@monsanto.com)				
CWH095D	Hyb	---	---	P
CWH101D	Hyb	---	---	P
CWH111	Hyb	---	---	P
CWH633	OP	RR/SURT	---	P
DKW41-10	OP	RR	2008	P
DKW45-10	OP	RR	2008	P
DKW46-15	OP	RR/SURT	2008	P
DKW47-15	OP	RR/SURT	2008	P
Technology Crops International				
Darrel Hanscomb (dhanscomb@techcrops.com)				
Hearty	OP	HEAR[4]	2006	H
Rossini	OP	HEAR	2007	H
Virginia State University Agricultural Experiment Station				
Dr. Harbans Bhardwaj (hbhardwj@vsu.edu)				
Virginia	OP	---	2003	H

[1]OP = open pollinated, Hyb = hybrid.

[2]RR = glyphosate resistant, IMI = imidazolinone resistant, SU = sulfonylurea carryover tolerant, SURT = sulfonylurea carryover tolerant.

[3]Sd Trt = Seed treatment (H = Helix XTra, P = Prosper FX).

[4]HEAR = High erucic acid rapeseed. Contains greater than 2% erucic acid in the processed oil and can be used only for industrial purposes. HEAR is not canola.

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