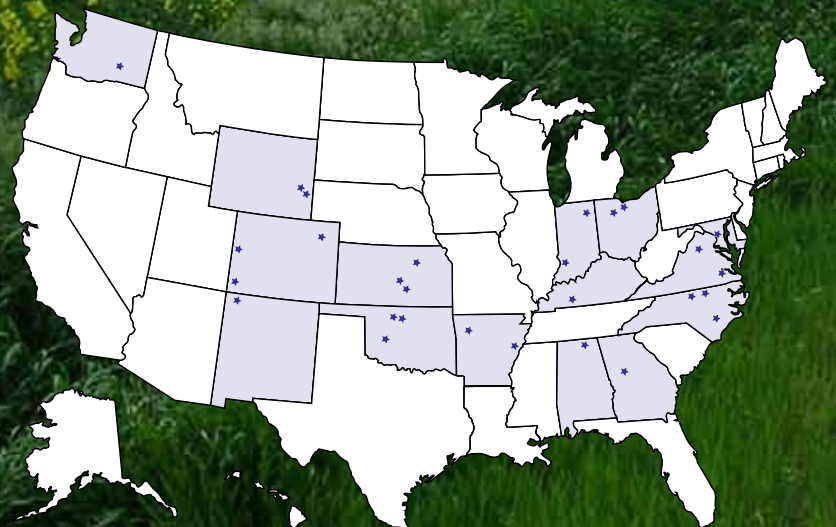


# 2009 National Winter Canola Variety Trial

*Report of Progress 1026*



**Kansas State University  
Agricultural Experiment Station  
and Cooperative Extension Service**



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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<sup>2</sup>) 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:

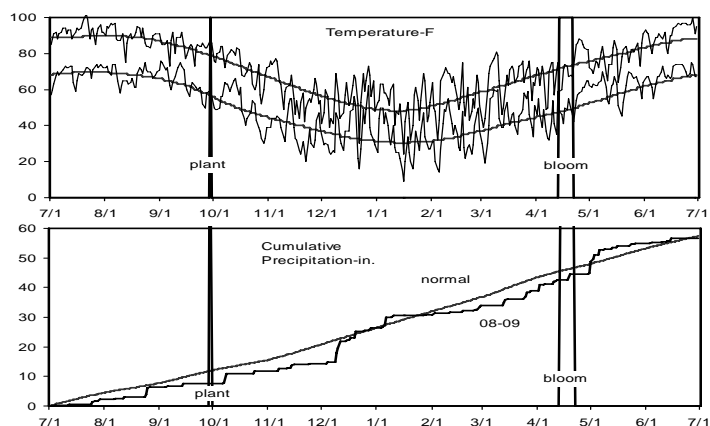


Table 1. Results for the 2009 National Winter Canola Variety Trial at Meridianville, AL

Name	Yield (lb/a)			Yield (% of test avg.)		Winter Survival (%)		Fall Stand	50% Blm	Matur ity	Plant Height	Lodg ing	Shat ter	Moist. (%)	Test Wt (lb/bu)	Prot ein (%)	Oil (%)
	2009	2008	2-Yr.	2009	2008	2-Yr.	(0-10)	(d)	(d)	(in.)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
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% Matur Blm	Plant ity	Plant Height	Lodg ing	Shat ter	Moist.	Test Wt	Prot ein	Oil
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(d)	(in.)	(%)	(%)	(%)	(lb/bu)	(%)	(%)		
Dimension	1440	<b>3537</b>	2488	78	93	100	97	7.7	109	161	46	0.0	0.0	7.0	35.2	24.9	<b>42.4</b>		
DKW47-15	1411	3080	2245	76	<b>95</b>	100	98	8.0	104	158	48	0.0	1.7	7.4	32.3	<b>27.7</b>	40.0		
KS4085	1399	<b>3537</b>	2468	75	<b>97</b>	100	98	<b>9.0</b>	109	161	50	0.0	0.0	7.6	31.6	<b>27.1</b>	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	<b>99</b>	---	---	<b>9.7</b>	106	160	51	0.0	1.7	7.5	29.5	25.0	40.8		
ARC00004-2	1228	---	---	66	<b>98</b>	---	---	<b>9.3</b>	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		
<b>Mean</b>	1856	3140	---	---	98	---	---	9.1	107	160	49	0.6	0.6	7.4	43.1	25.3	41.3		
<b>CV</b>	23	22	---	---	3	---	---	9.7	2	1	7	---	---	7.9	23.1	3.8	1.6		
<b>LSD (0.05)</b>	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.

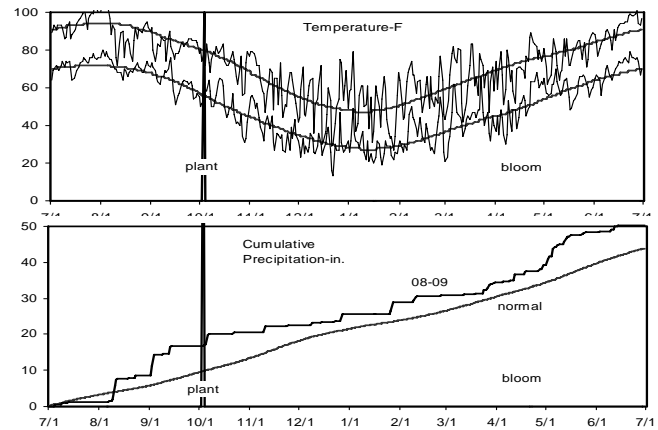


Table 2. Results for the 2009 National Winter Canola Variety Trial at Kibler, AR

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

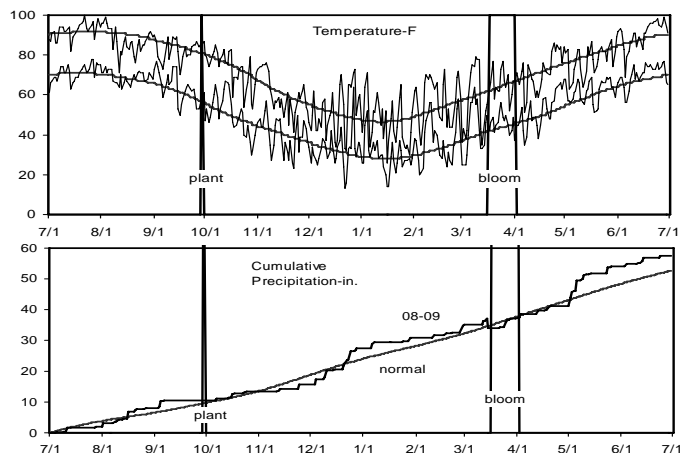


Table 3. Results for the 2009 National Winter Canola Variety Trial at Marianna, AR

Name	Yield (lb/a)			Yield (% of test avg.)			Winter Survival (%)			Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	50% Bloom (d)	Weight (lb/bu)	Protein (%)	Oil (%)	
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		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(d)	Weight (lb/bu)	Protein (%)	Oil (%)		
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	<b>39.1</b>		
Baldur	1840	2430	2135	85	---	---	---	81	49.4	23.2	<b>39.1</b>		
DKW47-15	1744	2034	1889	81	---	---	---	82	48.9	<b>25.6</b>	<b>38.0</b>		
HyClass115W	1705	1147	1426	79	---	---	---	80	49.3	24.2	<b>38.9</b>		
HyClass107W	1693	1823	1758	79	---	---	---	86	49.0	<b>26.3</b>	<b>38.1</b>		
DKW46-15	1656	976	1316	77	---	---	---	84	48.7	24.3	<b>39.1</b>		
DKW45-10	1587	2473	2030	74	---	---	---	77	49.4	<b>25.8</b>	36.8		
DKW41-10	1583	2093	1838	73	---	---	---	77	<b>49.9</b>	<b>26.8</b>	35.3		
Hearty	1040	---	---	48	---	---	---	83	<b>49.7</b>	24.4	<b>38.8</b>		
<b>Mean</b>	2155	---	---	---	---	---	---	83	49.1	24.8	38.2		
<b>CV</b>	11	---	---	---	---	---	---	1.1	1.1	3.8	2.8		
<b>LSD (0.05)</b>	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:

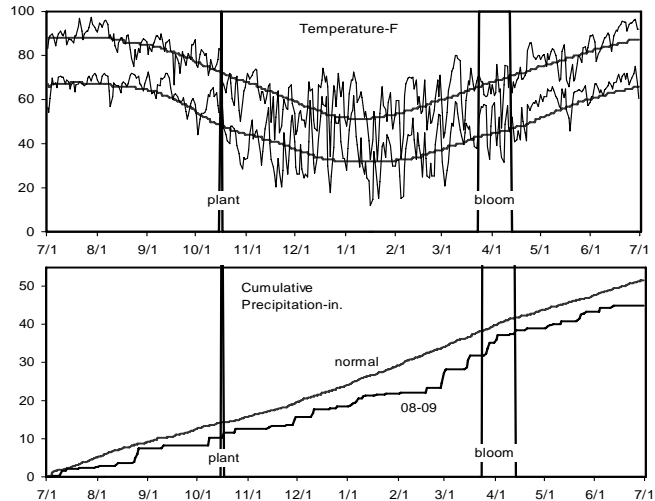


Table 4. Results for the 2009 National Winter Canola Variety Trial at Griffin, GA

Name	Yield (lb/a)			Yield (% of test avg.)	50% Bloom (d)	Plant			Test			
	2009	2008	2-Yr.			Maturity (d)	Height (in.)	Lodging (%)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
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**

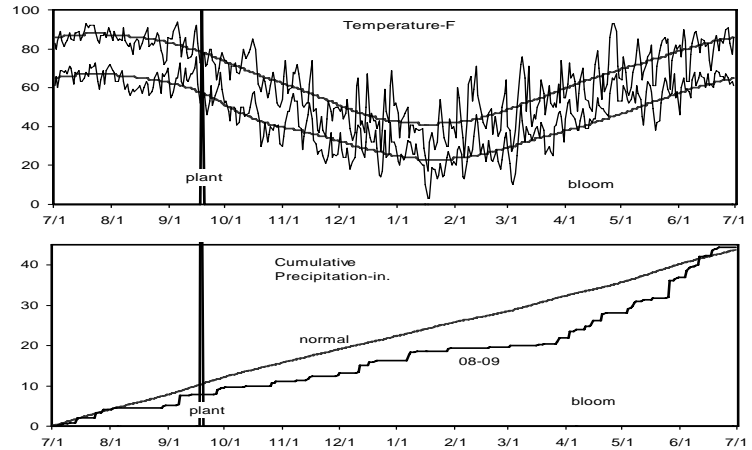
Name	Yield (lb/a)			Yield (% of 50% test avg.)		Plant			Test			
	2009	2008	2-Yr.	2009	Bloom (d)	Maturity (d)	Height (in.)	Lodging (%)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
Visby	2086	530	1308	91	88	147	61	0.0	3.7	49.9	24.6	38.9
ARC00004-2	2060	---	---	90	90	154	67	38.3	3.9	47.4	27.7	35.8
Sumner	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	<b>28.3</b>	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	<b>29.5</b>	35.4
HyClass107W	1883	687	1285	83	92	149	63	71.7	3.8	47.9	<b>28.4</b>	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	<b>28.3</b>	36.1
<b>Mean</b>	2280	1026	---	---	90	152	63	11.8	3.8	48.0	26.6	37.5
<b>CV</b>	15	---	---	---	1	1	6	149.8	6.1	4.9	2.7	2.1
<b>LSD (0.05)</b>	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.) 2009	Fall Stand (0-10)	Bloom (% of open buds) (4/16/09)	Maturity (%) (6/15/09)	Plant Height (in.)	Lodging (%)	Shatter (%)	Moist. (%)	Test		
	2009	2008	2-Yr.									Weight (lb/bu)	Protein (%)	Oil (%)
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
<b>Mean</b>	1290	---	---	---	6.9	58.3	54.6	59	16.5	3.3	5.9	47.5	23.5	40.0
<b>CV</b>	32	---	---	---	18.4	27.1	32.5	4	92.8	65.4	28.6	10.9	3.3	2.7
<b>LSD (0.05)</b>	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:

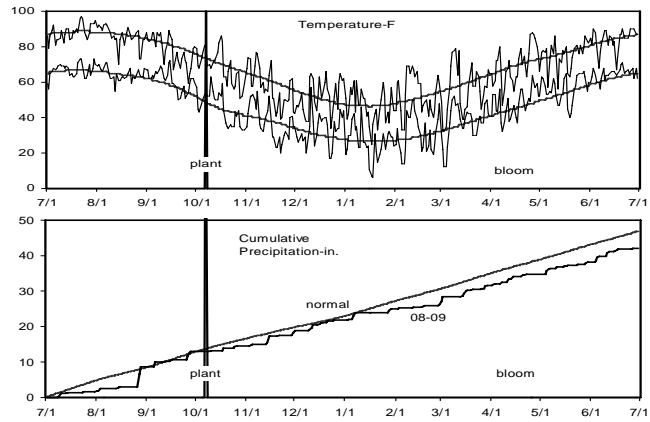


Table 6. Results for the 2009 National Winter Canola Variety Trial at Reidsville, NC

Name	Yield (lb/a)			Yield (% of test avg.)			Winter Survival (%)			Plant Height (in)	Maturity (%)	Protein (%)	Oil (%)
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	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		
<b>Mean</b>	1418	---	---	---	---	---	---	41	92.2	22.1	40.4		
<b>CV</b>	23	---	---	---	---	---	---	16	3.4	5.5	5.3		
<b>LSD (0.05)</b>	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:

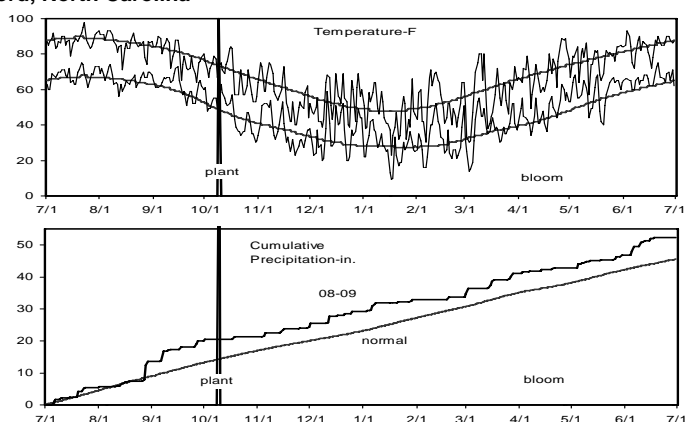


Table 7. Results for the 2009 National Winter Canola Variety Trial at Oxford, NC

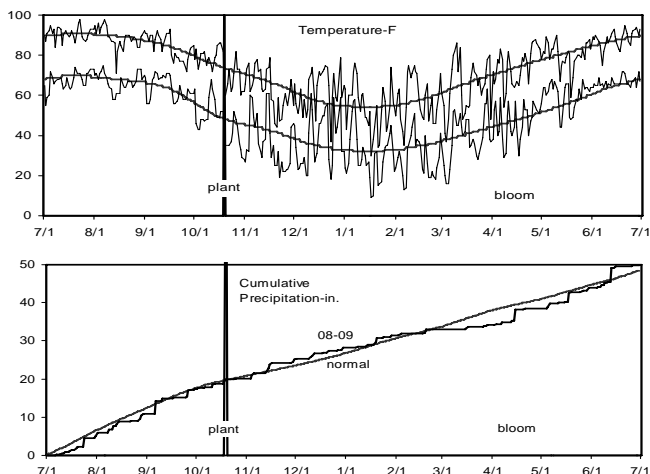
Name	Yield (lb/a)			Yield (% of test avg.)			Plant				
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in)	Maturity (%)	Protein (%)	Oil (%)
Visby	1468	---	---	133	---	---	---	36	79.5	22.3	39.9
KS3077	1397	---	---	127	---	---	---	45	83.3	23.4	40.6
Hybridsurf	1353	---	---	123	---	---	---	48	78.3	22.3	41.7
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
<b>Mean</b>	1103	---	---	---	---	---	---	40	81.5	22.9	40.9
<b>CV</b>	27	---	---	---	---	---	---	15	10.5	3.0	4.3
<b>LSD (0.05)</b>	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 Wallace, NC**

Name	Yield (lb/a)			Yield (% of test avg.)			Plant				
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in)	Maturity (%)	Protein (%)	Oil (%)
Dimension	<b>2857</b>	---	---	134	---	---	---	50	81.7	22.1	42.4
Virginia	<b>2442</b>	---	---	115	---	---	---	37	90.0	23.4	40.3
46W14	<b>2381</b>	---	---	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
<b>Mean</b>	2131	---	---	---	---	---	---	48	80.1	22.9	40.7
<b>CV</b>	15	---	---	---	---	---	---	9	6.8	3.3	2.7
<b>LSD (0.05)</b>	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.



David Starnier, 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.

Orange, Virginia

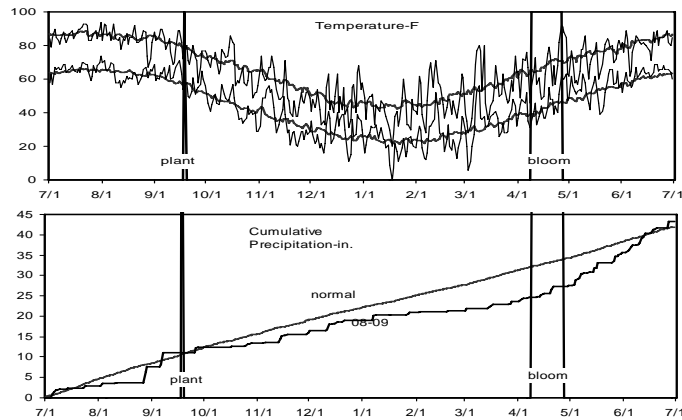


Table 9. Results for the 2009 National Winter Canola Variety Trial at Orange, VA

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

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:

Petersburg, Virginia

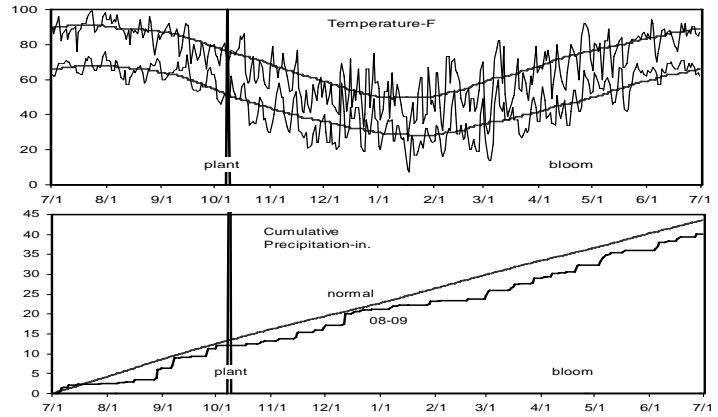


Table 10. Results for the 2009 National Winter Canola Variety Trial at Petersburg, VA

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

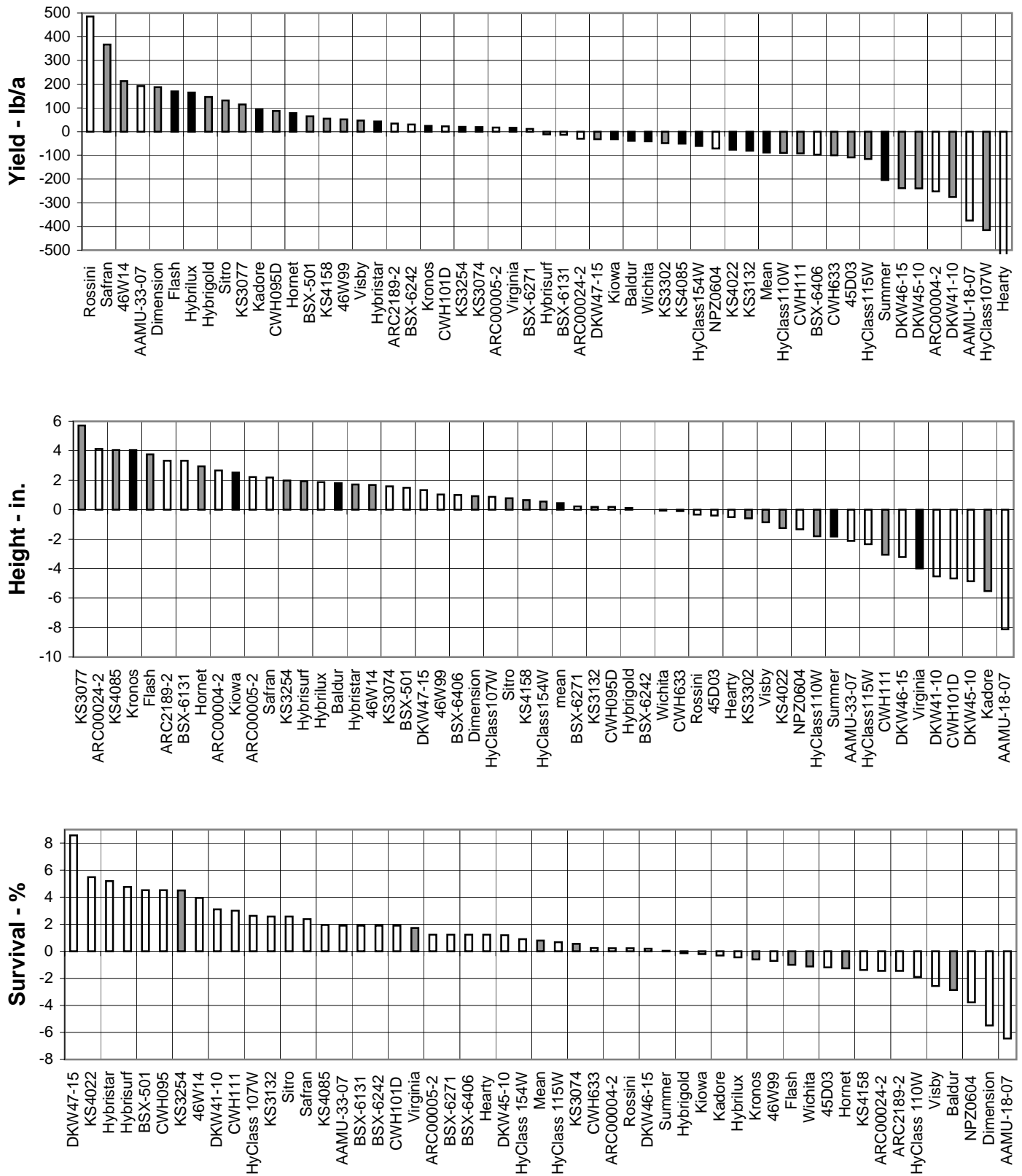
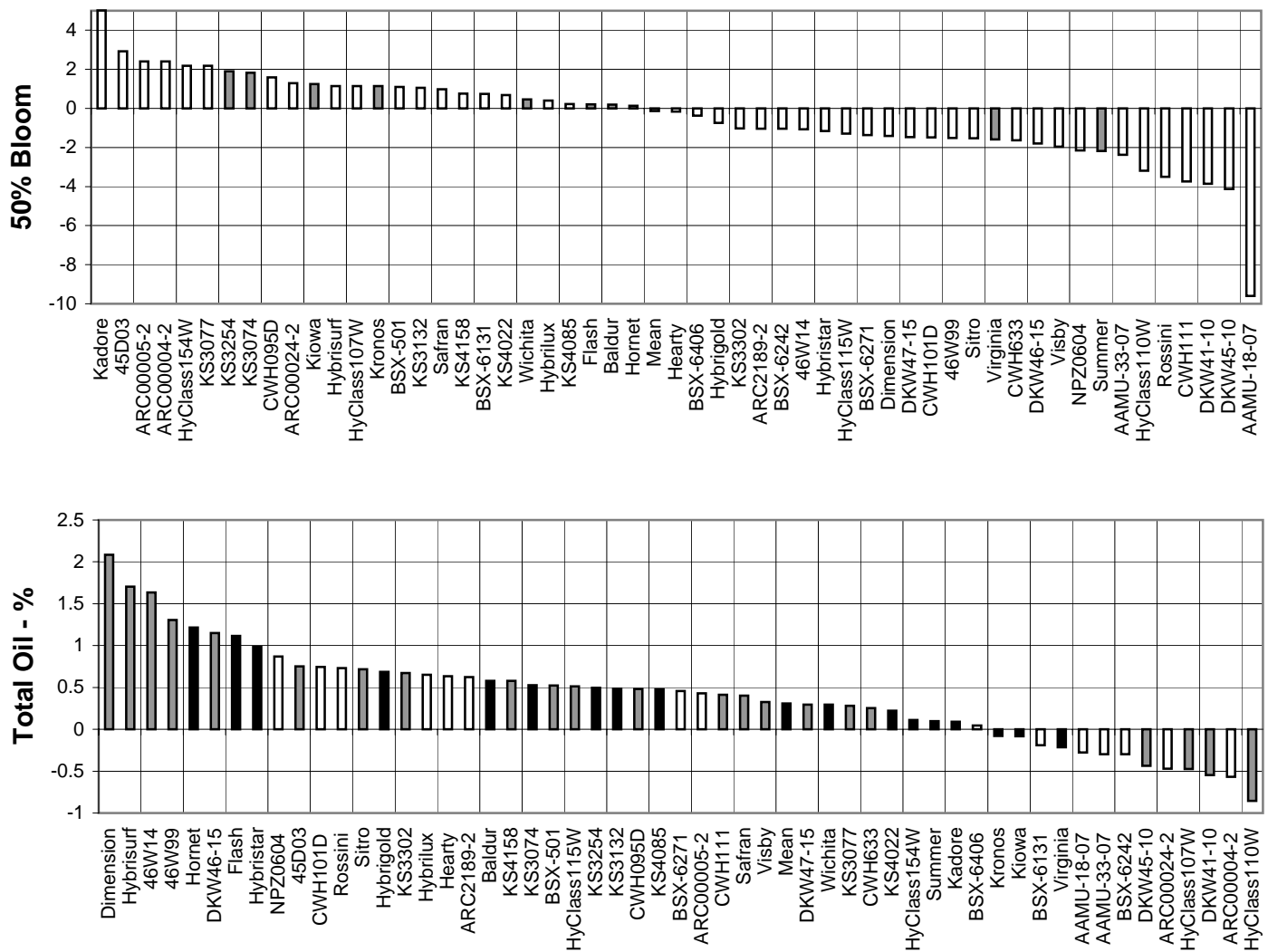


Figure 1. Southeast Winter Canola Summary, 2005-2009.



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).

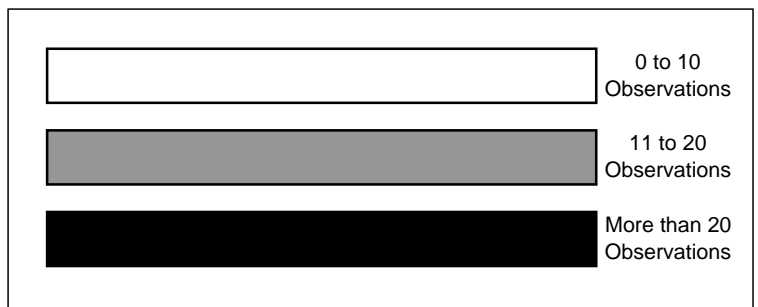
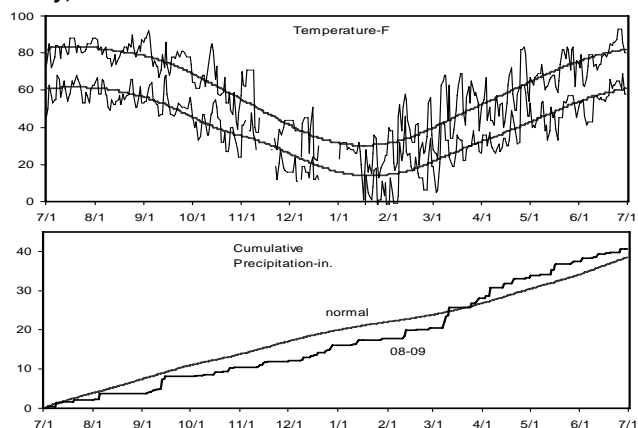


Figure 1. Southeast Winter Canola Summary, 2005-2009 (continued).

### 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.)				Plant		Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in.)	Moist. (%)	Weight <sup>1</sup> (lb/bu)	Protein (%)	Oil (%)
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 (in.)	Moist. (%)	Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Weight <sup>1</sup> (lb/bu)	Protein (%)			Oil (%)		
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	<b>2138</b>	1887	79	---	---	---	47.7	7.5	61.4	20.1	42.1		
DKW41-10	1637	2027	1832	79	---	---	---	48.0	8.3	60.5	<b>21.9</b>	41.1		
AAMU-18-07	1486	---	---	71	---	---	---	43.3	7.3	61.5	20.6	41.2		
HyClass115W	1470	<b>2301</b>	1885	71	---	---	---	48.0	10.2	57.4	21.7	41.8		
Hearty	1450	---	---	70	---	---	---	47.3	10.8	55.9	19.2	<b>44.1</b>		
<b>Mean</b>	2079	---	---	---	---	---	---	48.9	7.4	61.2	20.3	42.8		
<b>CV</b>	10	---	---	---	---	---	---	5.0	11.8	1.8	3.3	2.1		
<b>LSD (0.05)</b>	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. <sup>1</sup>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:

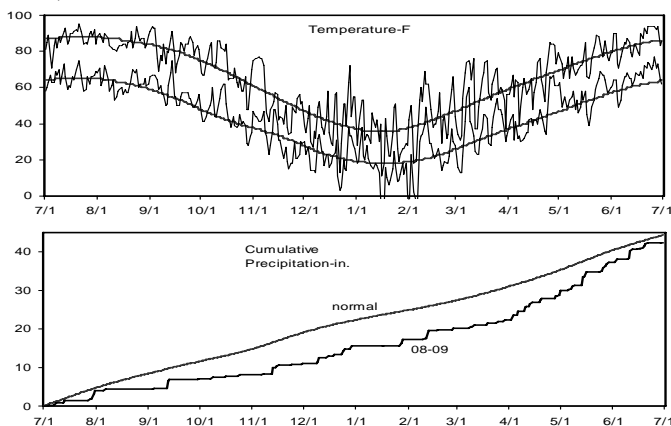


Table 12. Results for the 2009 National Winter Canola Variety Trial at Vincennes, IN

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in.)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
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.)				Plant		Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in.)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
ARC00024-2	1826	---	---	89	---	---	---	62.0	7.4	50.7	25.5	37.7
ARC00004-2	1815	---	---	88	---	---	---	61.3	8.8	48.3	<b>25.7</b>	38.1
DKW46-15	1745	1202	1474	85	---	---	---	55.0	7.6	51.3	24.3	<b>41.3</b>
HyClass107W	1679	1429	1554	82	---	---	---	54.7	6.4	51.9	<b>26.9</b>	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
<b>Mean</b>	2055	1414	---	---	---	---	---	57.3	7.8	49.9	25.1	39.5
<b>CV</b>	13	20	---	---	---	---	---	3.6	17.2	3.7	3.3	1.8
<b>LSD (0.05)</b>	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.

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:

Russellville, Kentucky

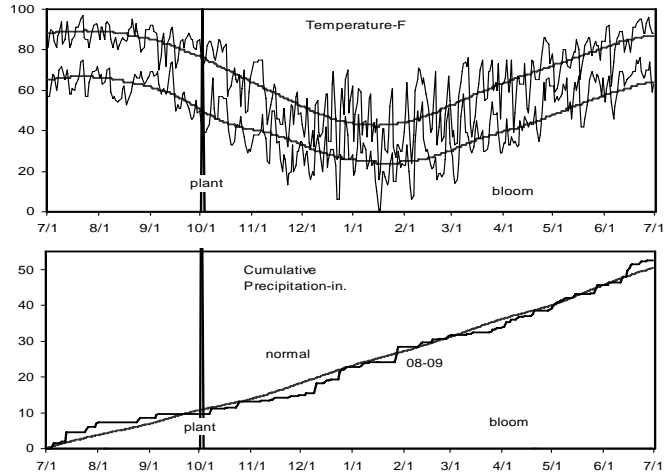


Table 13. Results for the 2009 National Winter Canola Variety Trial at Russellville, KY

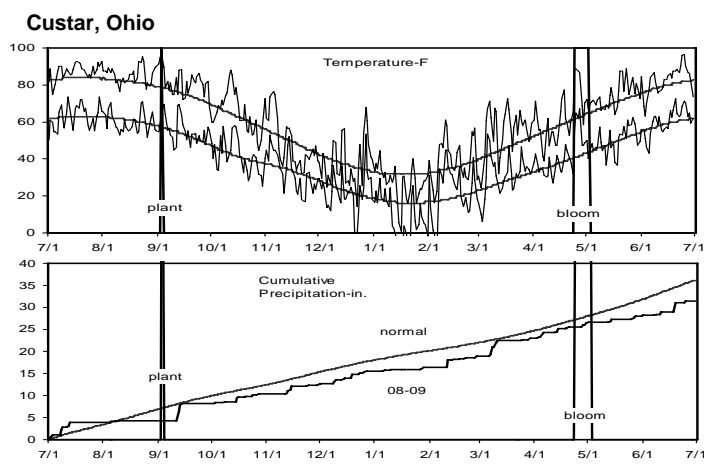
Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Moisture <sup>1</sup> (%)	Protein (%)	Oil (%)
	2009	2008	2-Yr.		2009	2008	2-Yr.			
Safran	3835	4250	4043	176	---	---	---	6.5	25.1	39.9
Flash	3480	---	---	160	---	---	---	6.9	24.6	40.4
Sitro	3380	4485	3933	155	---	---	---	6.5	25.2	39.7
Hybrigold	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	Winter Survival (%)			Moisture <sup>1</sup>	Protein	Oil
	2009	2008	2-Yr.	test avg.)	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	<b>42.6</b>
CWH633	1400	---	---	64	---	---	---	6.9	26.6	39.3
DKW47-15	1400	2800	2100	64	---	---	---	6.9	<b>27.4</b>	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	<b>26.8</b>	39.6
Hearty	775	---	---	36	---	---	---	6.9	26.5	39.5
CWH101D	600	---	---	28	---	---	---	6.9	25.8	39.0
<b>Mean</b>	2178	3760	---	---	---	---	---	6.9	25.9	39.5
<b>CV</b>	26	1050	---	---	---	---	---	9.6	2.1	1.7
<b>LSD (0.05)</b>	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. <sup>1</sup>Yields adjusted to 10% moisture.

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	---	---		
<b>Mean</b>	4042	---	---	---	99	---	---	90	117	40	---	---		
<b>CV</b>	9	---	---	---	2	---	---	6	1	6	---	---		
<b>LSD (0.05)</b>	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

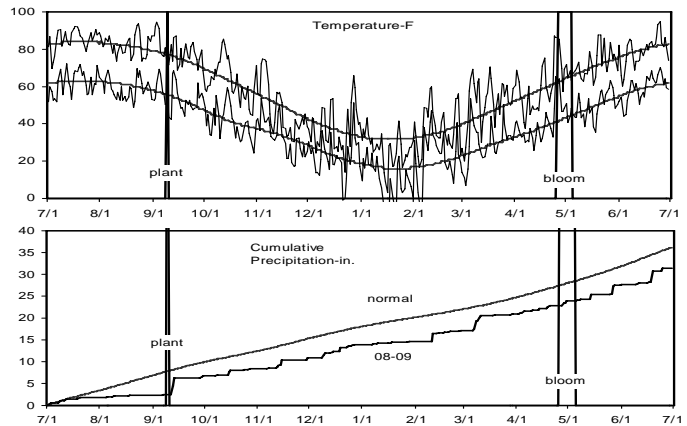


Table 15. Results for the 2009 National Winter Canola Variety Trial at Fremont, OH

Name	Yield (lb/a)			Yield (% of test avg.)			Winter Survival (%)			Fall Stand (%)	50% Bloom (d)	Plant Height (in)	Protein (%)	Oil (%)
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	2009	2008	2-Yr.	(%)	(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		
<b>Mean</b>	2489	3128	---	---	94	---	---	87	117	45	21.3	42.8		
<b>CV</b>	15	11	---	---	6	---	---	4	1	6	3.2	2.3		
<b>LSD (0.05)</b>	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.

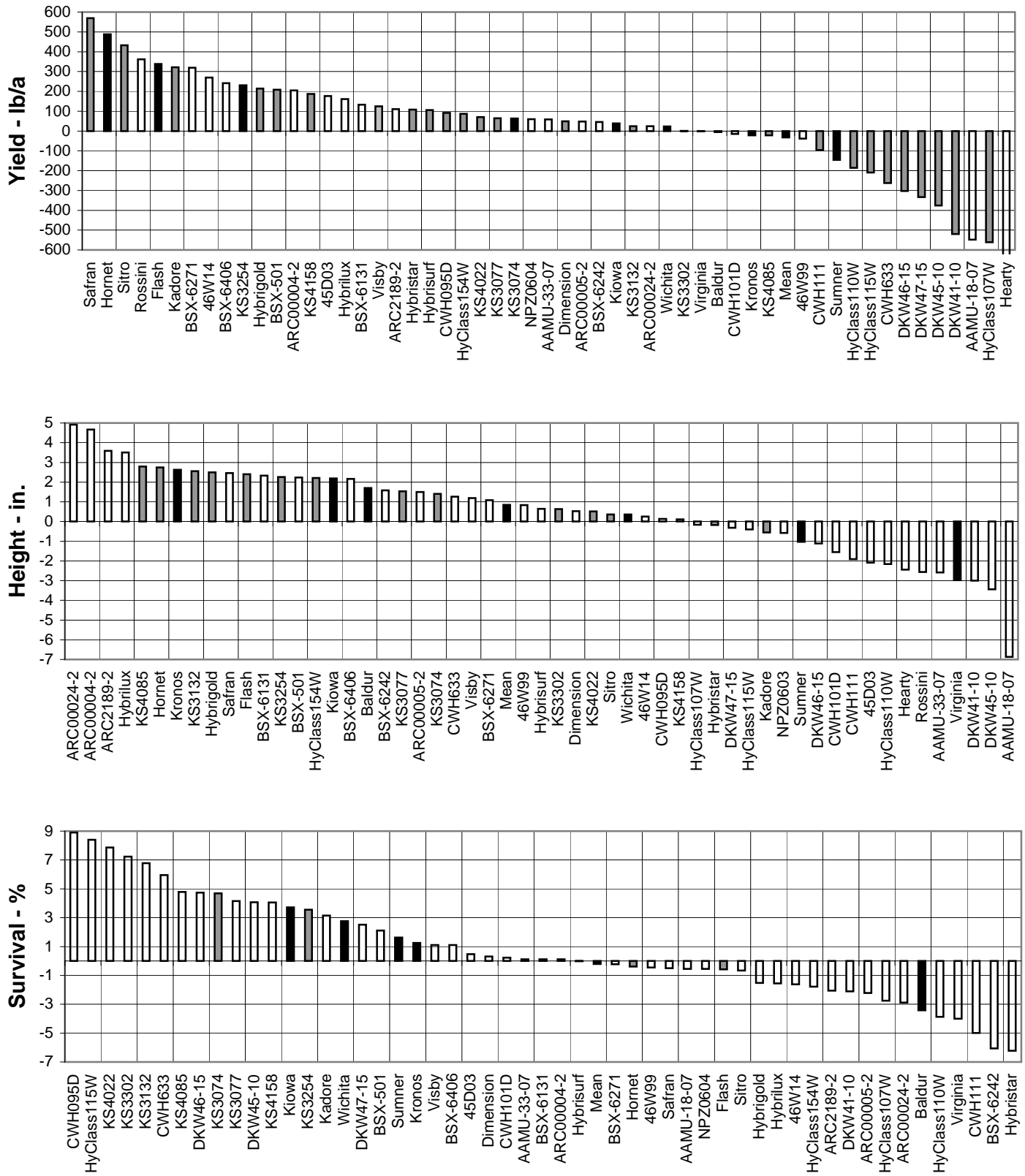
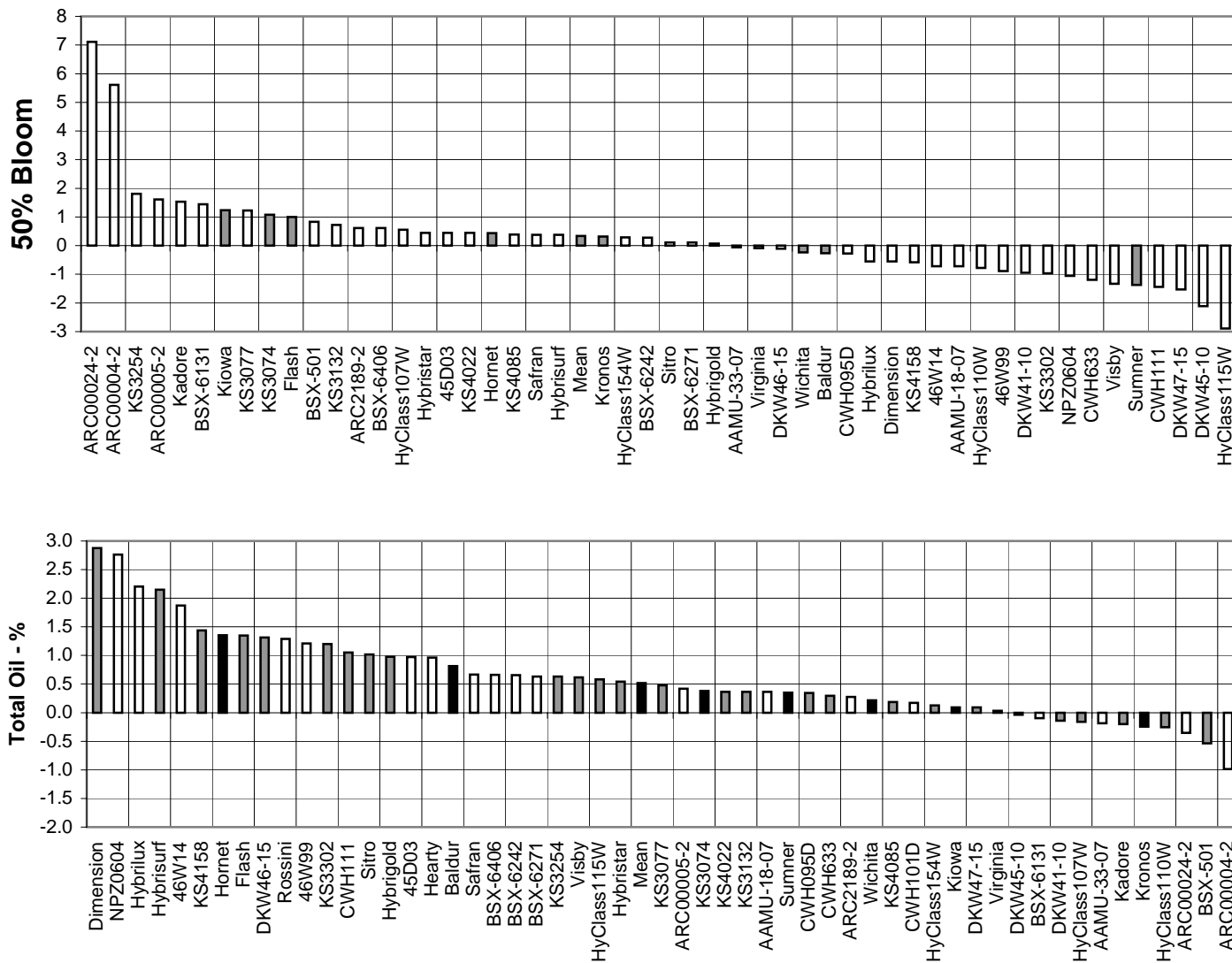


Figure 2. Midwest Winter Canola Summary, 2005-2009.





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).

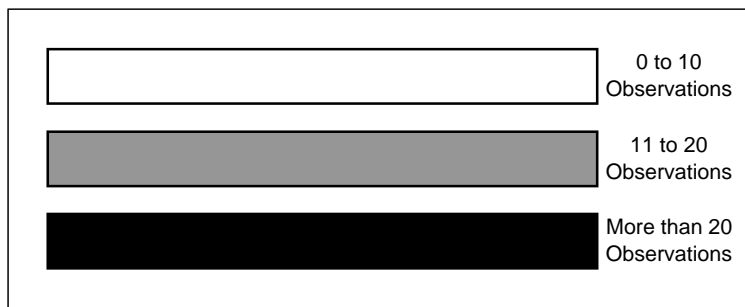


Figure 2. Midwest Winter Canola Summary, 2005-2009 (continued).

**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

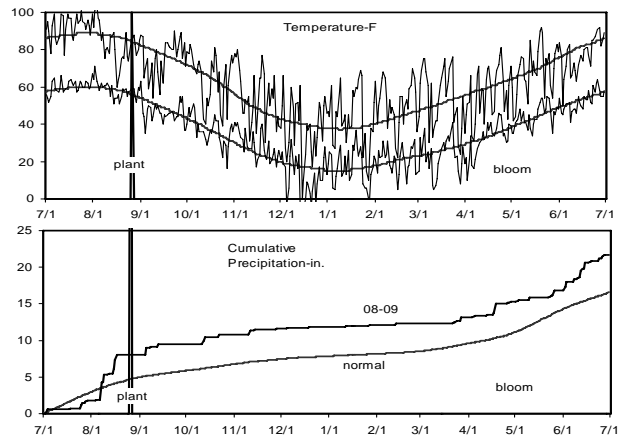
Soil Test: NA

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 (% of test avg.)						Plant					
	Yield (lb/a)		2-Yr.	Winter Survival (%)		Fall Stand (plants/3-ft row)	Height (in)	Shatter (%)	Moisture (%)	Protein (%)	Oil (%)	
	2009	2008		2009	2008							
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	---	---
<b>Mean</b>	699	---	---	---	30	---	32	34	12	10.6	---	---
<b>CV</b>	27	---	---	---	45	---	25	8	39	19.3	---	---
<b>LSD (0.05)</b>	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

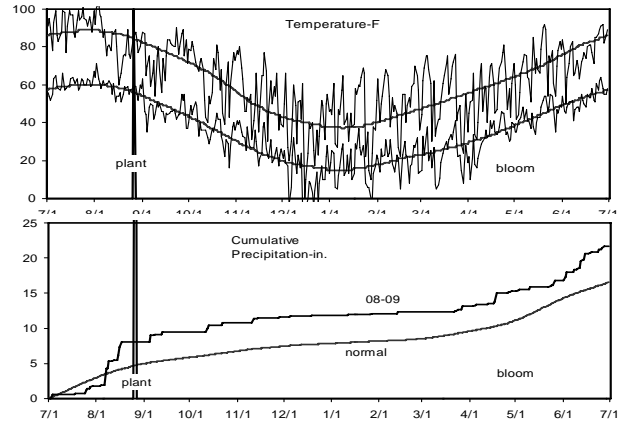
Soil Test: NA

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**

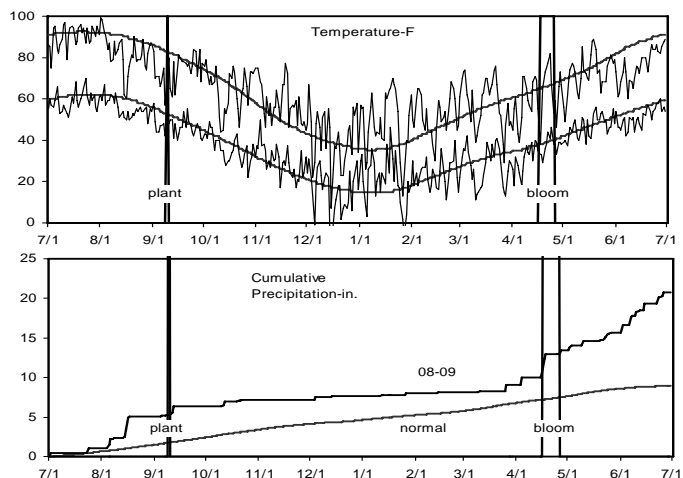
Name	Yield (lb/a)			Yield (% of test avg.)		Winter Survival (%)		Fall Stand	Moisture	Protein	Oil
	2009	2008	2-Yr.	2009	2008	2009	2008	(plants/3-ft row)	(%)	(%)	(%)
Safran	2006	---	---	129	34	---	---	30	---	25.2	<b>37.6</b>
Visby	<b>1940</b>	---	---	125	57	---	---	17	---	25.6	<b>36.5</b>
Hornet	<b>1854</b>	---	---	119	44	---	---	24	---	25.7	<b>36.4</b>
Baldur	<b>1837</b>	---	---	118	34	---	---	26	---	25.4	35.7
NPZ0604	<b>1832</b>	---	---	118	38	---	---	31	---	23.8	<b>38.5</b>
Kronos	<b>1801</b>	---	---	116	48	---	---	20	---	25.2	35.5
KS4085	<b>1797</b>	---	---	116	40	---	---	30	---	26.1	<b>36.3</b>
KS4158	1778	---	---	115	31	---	---	40	---	26.4	<b>37.0</b>
KS3254	1743	---	---	112	24	---	---	42	---	26.6	36.0
HyClass107W	1720	---	---	111	55	---	---	21	---	<b>28.9</b>	<b>36.9</b>
BSX-6242	1716	---	---	111	29	---	---	32	---	27.7	<b>36.4</b>
BSX-501	1703	---	---	110	43	---	---	22	---	28.7	35.1
Sumner	1701	---	---	110	49	---	---	21	---	28.0	<b>36.3</b>
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	<b>36.9</b>
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	<b>37.3</b>
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	---	<b>28.9</b>	33.3
DKW47-15	1063	---	---	69	38	---	---	29	---	27.4	33.7
DKW41-10	812	---	---	52	19	---	---	34	---	<b>30.2</b>	32.2
Flash	468	---	---	30	28	---	---	28	---	27.7	<b>36.4</b>
<b>Mean</b>	1552	---	---	---	37	---	---	28	---	27.2	35.3
<b>CV</b>	15	---	---	---	39	---	---	24	---	3.0	4.1
<b>LSD (0.05)</b>	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 (0-10)	50% Bloom (d)	Plant Height (in.)	Lodging (%)	Shatter (%)	Moist. (%)	Test		
	2009	2008	2-Yr.								2009	Weight (lb/bu)	Protein (%)
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
<b>Mean</b>	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**

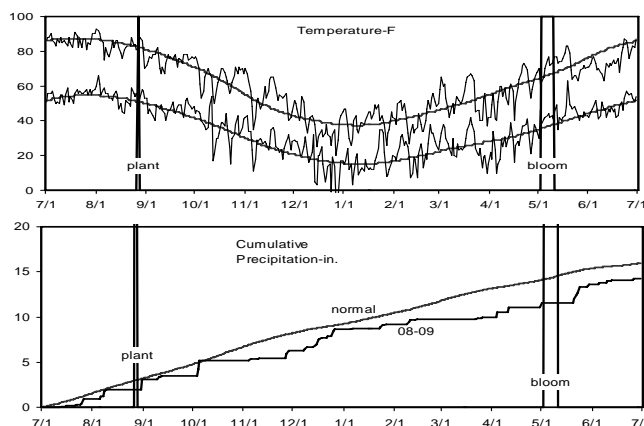
Name	Yield (lb/a)			Yield (% of test avg.)	Fall Stand (0-10)	50% Bloom (d)	Plant Height (in.)	Lodging (%)	Shatter (%)	Moist. (%)	Test		
	2009	2008	2-Yr.								2009	Weight (lb/bu)	Protein (%)
HyClass110W	2925	2426	2675	88	<b>10.0</b>	112	49	0.0	0.8	5.2	49.2	18.0	46.6
Sumner	2897	2264	2581	87	<b>10.0</b>	110	51	0.0	3.3	5.2	<b>49.6</b>	19.3	46.3
Wichita	2877	2605	2741	86	<b>10.0</b>	113	56	10.0	3.3	8.0	48.4	20.3	45.0
KS3132	2874	2481	2678	86	<b>9.8</b>	114	59	0.0	3.3	6.5	49.0	19.8	44.7
Kiowa	2806	2401	2604	84	<b>10.0</b>	114	58	0.0	0.0	6.0	48.3	19.5	44.8
ARC2189-2	2768	---	---	83	<b>10.0</b>	113	63	0.0	6.7	6.9	48.3	18.1	46.9
BSX-6131	2729	---	---	82	<b>10.0</b>	114	58	0.0	1.7	6.3	49.4	17.1	48.0
ARC00024-2	2607	---	---	78	<b>10.0</b>	115	67	0.0	5.8	7.6	49.4	19.6	45.4
BSX-501	3000	2482	2741	90	<b>10.0</b>	113	57	0.0	0.0	6.2	46.8	20.2	44.8
<b>Mean</b>	3336	2760	---	---	9.9	112	56	0.4	1.7	6.0	49.3	19.3	45.7
<b>CV</b>	12	12	---	---	1.3	1	5	649.5	114.4	15.5	1.2	6.2	2.7
<b>LSD (0.05)</b>	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 (0-10)	50% Bloom (d)	Plant Height (in.)	Lodging (%)	Shatter (%)	Moist. (%)	Protein (%)	Oil (%)
	2009	2008	2-Yr.										
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
<b>Mean</b>	3640	1544	---	---	95	9.7	126	51.1	0.3	1.6	5.3	23.3	40.9
<b>CV</b>	14	19	---	---	5.4	3.9	---	5.6	---	---	4.5	4.5	3.0
<b>LSD (0.05)</b>	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

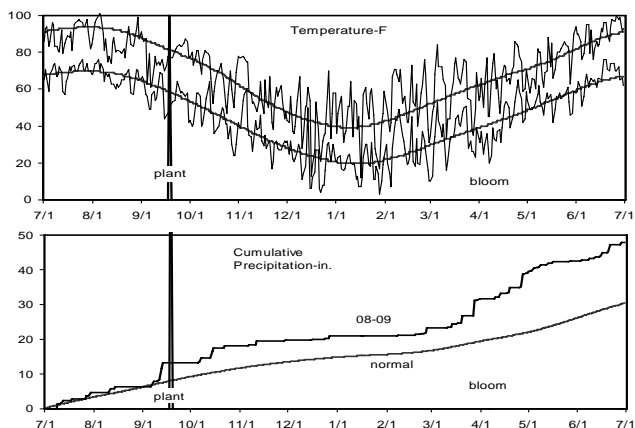
Soil Test: pH=6.4, OM=1.1, N=37 ppm, P=133 ppm, K=182 ppm

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	<b>2298</b>	---	---	162	---	---	---	---	11.1	38.6	11.1	38.6	
HyClass107W	<b>2077</b>	---	---	146	---	---	---	---	9.9	38.9	9.9	38.9	
Hybrisurf	<b>1871</b>	---	---	132	---	---	---	---	11.4	36.3	11.4	36.3	
DKW47-15	<b>1625</b>	---	---	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	
<b>Mean</b>	1421	---	---	---	---	---	---	---	10.3	36.3	10.3	36.3	
<b>CV</b>	29	---	---	---	---	---	---	---	11.2	10.5	11.2	10.5	
<b>LSD (0.05)</b>	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

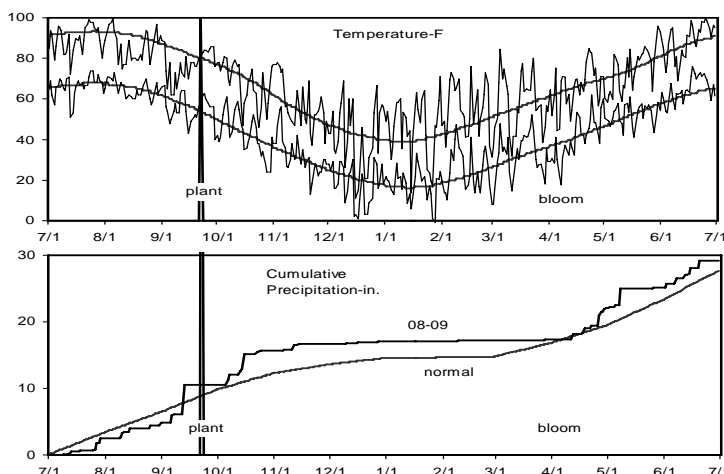
Fertilizer: 75-0-0 lb N-P-K fertilizer in fall

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 (0-10)	Vigor <sup>1</sup> (1-5)	Freeze Damage <sup>2</sup> (1-5)	Plant Height (in.)	Moist. (%)	Test			
	2009	2008							2-Yr.	2009	Weight (lb/bu)	Protein (%)
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 (0-10)	Vigor <sup>1</sup> (1-5)	Freeze Damage <sup>2</sup> (1-5)	Plant Height (in.)	Moist. (%)	Test		
	2009	2008	2-Yr.							2009	Weight (lb/bu)	Protein (%)
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	<b>42.8</b>
Hybrilux	739	---	---	68	5.3	4.0	3.0	43	6.0	47.1	<b>23.7</b>	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	<b>24.1</b>	40.9
DKW41-10	580	---	---	54	6.3	3.3	4.7	37	5.7	47.5	<b>24.8</b>	40.4
<b>Mean</b>	1084	---	---	---	5.5	3.9	2.6	40	5.8	48.3	22.8	41.8
<b>CV</b>	25	---	---	---	19.6	15.0	19.2	4	4.6	2.4	3.3	1.7
<b>LSD (0.05)</b>	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.

<sup>1</sup>Vigor rated as 1=poor to 5=excellent. <sup>2</sup>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.

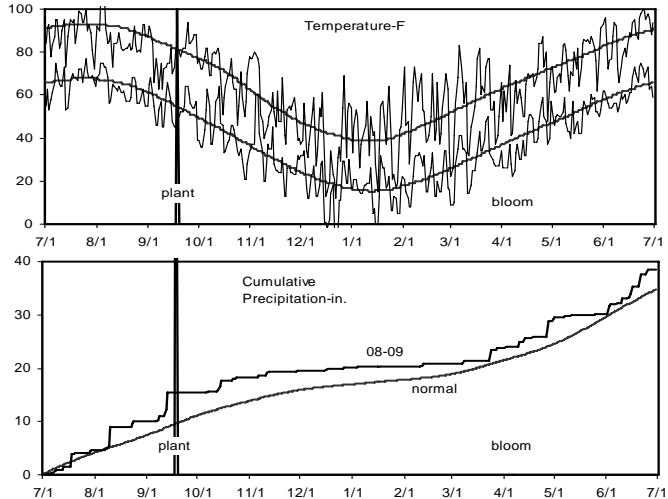


Table 22. Results for the 2009 National Winter Canola Variety Trial at Manhattan, KS

Name	Yield (lb/a)			Yield (% of test avg.)			Plant			Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Height (in.)	Moisture (%)	Weight (lb/bu)	Protein (%)	Oil (%)
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		Oil (%)
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(in.)	(%)	Weight (lb/bu)	Protein (%)		
Hybrilux	509	---	---	59	7.3	---	---	40	5.9	40.8	<b>26</b>	34	
DKW45-10	498	---	---	58	7.7	---	---	35	6.0	41.7	<b>26</b>	38	
KS3077	490	---	---	57	7.3	---	---	39	5.9	33.9	24	30	
Sumner	479	---	---	56	7.7	---	---	35	5.5	43.8	<b>26</b>	37	
CWH111	449	---	---	52	8.0	---	---	35	6.1	36.1	24	31	
Hybrigold	423	---	---	49	6.0	---	---	39	6.3	37.4	<b>26</b>	30	
HyClass115W	332	---	---	39	5.3	---	---	37	5.9	39.6	<b>25</b>	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	<b>26</b>	35	
<b>Mean</b>	861	---	---	---	7.9	---	---	40	6.0	39.3	25	35	
<b>CV</b>	37	---	---	---	12.8	---	---	5	8.3	10.5	3	8	
<b>LSD (0.05)</b>	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

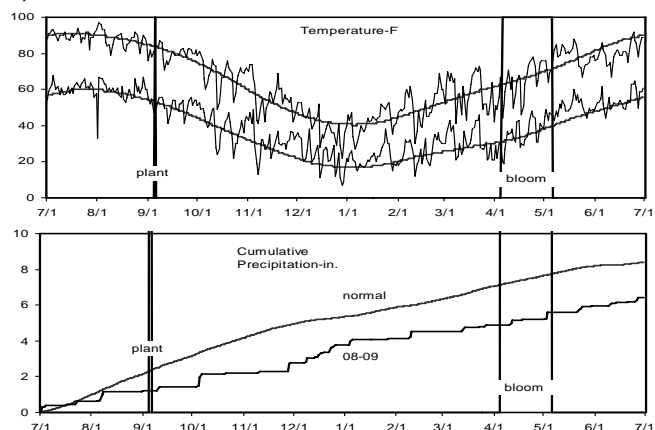
Soil Test: NA

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 (d)	Plant Height (in)	Shatter (%)	Moist. (%)	Test Weight (lb/bu)	Protein (%)	Oil (%)
	2009	2008	2-Yr.	2009	2008	2-Yr.	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		
<b>Mean</b>	4150	3787	---	---	95	98	---	---	---	89	113	45	4	8.2	47.3	26.5	39.9
<b>CV</b>	25	23	---	---	321	6	---	---	---	13	0.0	10	92	29.3	3.2	3.0	2.0
<b>LSD (0.05)</b>	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.

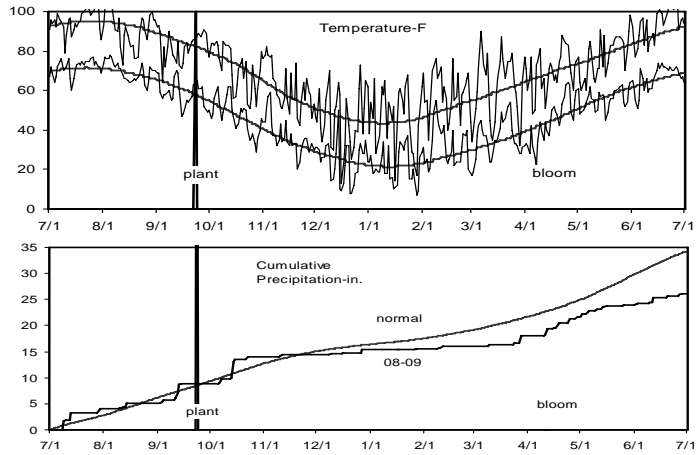


Table 24. Results for the 2009 National Winter Canola Variety Trial at Enid, OK

Name	Yield (lb/a)			Yield (% of test avg.)	Winter Survival (%)			Bloom (% of open buds) (4/15/09)	Plant Height (in.)	Moist. (%)	Test		
	2009	2008	2-Yr.		2009	2008	2-Yr.				Weight (lb/bu)	Protein (%)	Oil (%)
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

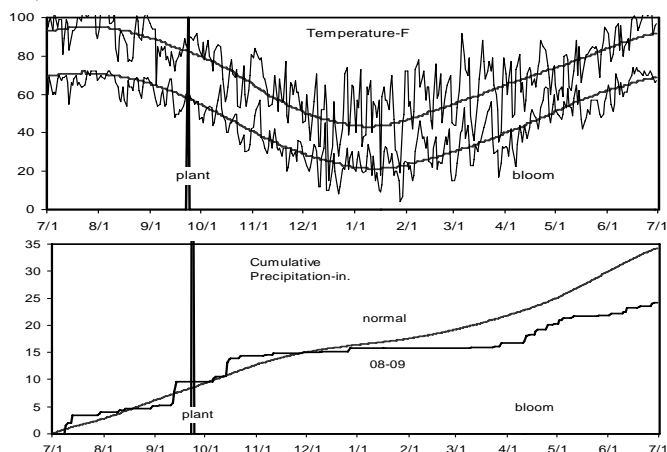
**Table 24. Results for the 2009 National Winter Canola Variety Trial at Enid, OK**

Name	Yield (lb/a)			Yield (% of test avg.)			Winter Survival (%)		Bloom (% of open buds)	Plant Height	Moist.	Test		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	<b>28.5</b>	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	<b>28.2</b>	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	<b>30.0</b>	34.7	
Hybristar	1792	706	1249	77	---	---	---	63.3	35	9.9	<b>52.1</b>	26.7	37.5	
AAMU-18-07	1710	---	---	73	---	---	---	91.7	31	9.3	49.0	26.3	37.5	
<b>Mean</b>	2330	521	---	---	---	---	---	71.8	39	9.4	51.7	27.0	37.5	
<b>CV</b>	10	42	---	---	---	---	---	11.2	5	6.5	1.5	1.9	2.0	
<b>LSD (0.05)</b>	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.)				Fall		Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	Stand (0-10)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
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.)				Fall Stand		Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	Moist. (%)	Weight (lb/bu)	Protein (%)	Oil (%)
HyClass115W	1358	---	---	81	---	---	---	3.0	6.8	51.3	24.2	41.5
BSX-6131	1346	---	---	80	---	---	---	6.0	7.0	51.4	<b>25.7</b>	39.9
DKW45-10	1308	---	---	78	---	---	---	<b>6.7</b>	6.9	51.0	<b>25.0</b>	40.7
AAMU-18-07	1245	---	---	74	---	---	---	<b>8.3</b>	7.2	46.6	24.5	39.5
CWH111	1116	---	---	66	---	---	---	<b>8.0</b>	6.8	50.2	<b>26.2</b>	36.6
<b>Mean</b>	1679	---	---	---	---	---	---	6.7	6.9	50.7	23.9	40.8
<b>CV</b>	12	---	---	---	---	---	---	22.5	6.0	3.7	2.3	2.3
<b>LSD (0.05)</b>	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.

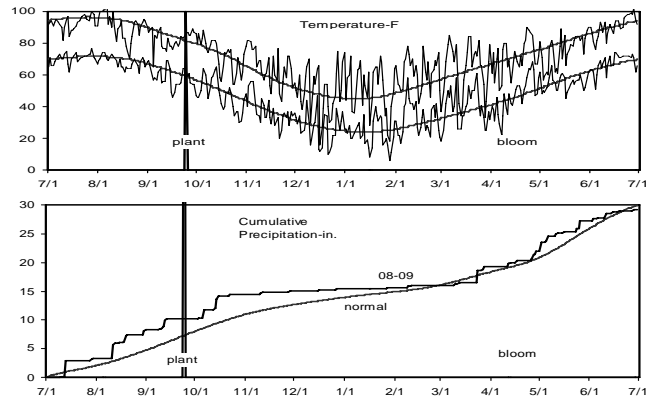


Table 26. Results for the 2009 National Winter Canola Variety Trial at Weatherford, OK

Name	Yield (lb/a)			Yield (% of test avg.)			Winter Survival (%)		Fall Stand	Freeze Damage <sup>1</sup>	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 <sup>1</sup>	Shatter	Moist.	Test		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(1-5)	(%)	(%)	(lb/bu)	Weight	Protein	Oil
ARC00024-2	862	---	---	76	98	---	---	<b>8.7</b>	3.0	0.0	13.1	45.6	24.3	40.6	
HyClass110W	821	---	---	73	98	---	---	<b>8.3</b>	5.0	0.0	10.0	47.3	<b>25.1</b>	39.4	
DKW41-10	758	---	---	67	96	---	---	<b>8.7</b>	4.7	2.0	9.4	<b>49.0</b>	<b>25.9</b>	37.1	
CWH111	704	---	---	62	100	---	---	<b>9.0</b>	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	<b>24.8</b>	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. <sup>1</sup> Freeze damage rating on a scale from 1=no damage to 5=severe.

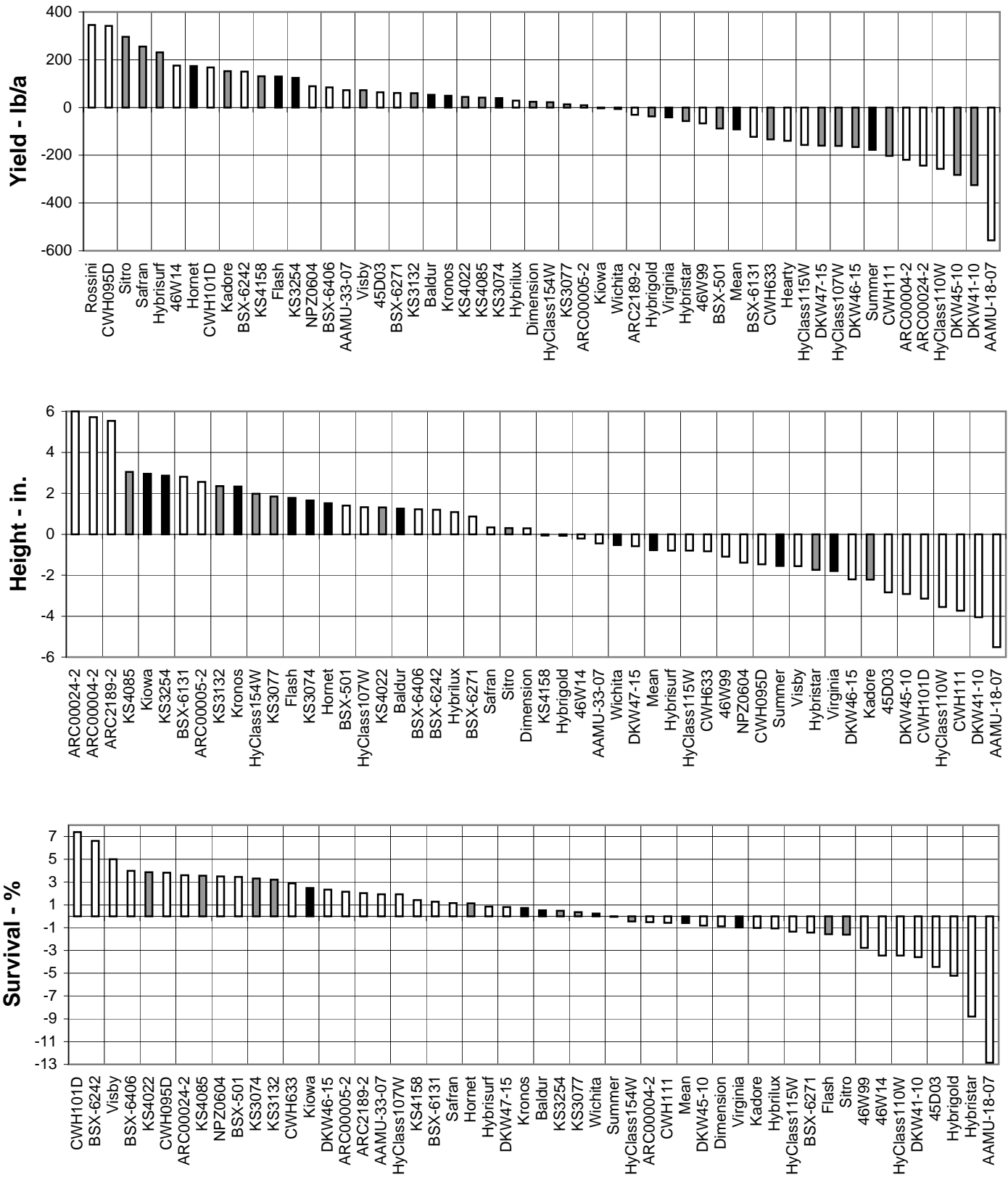
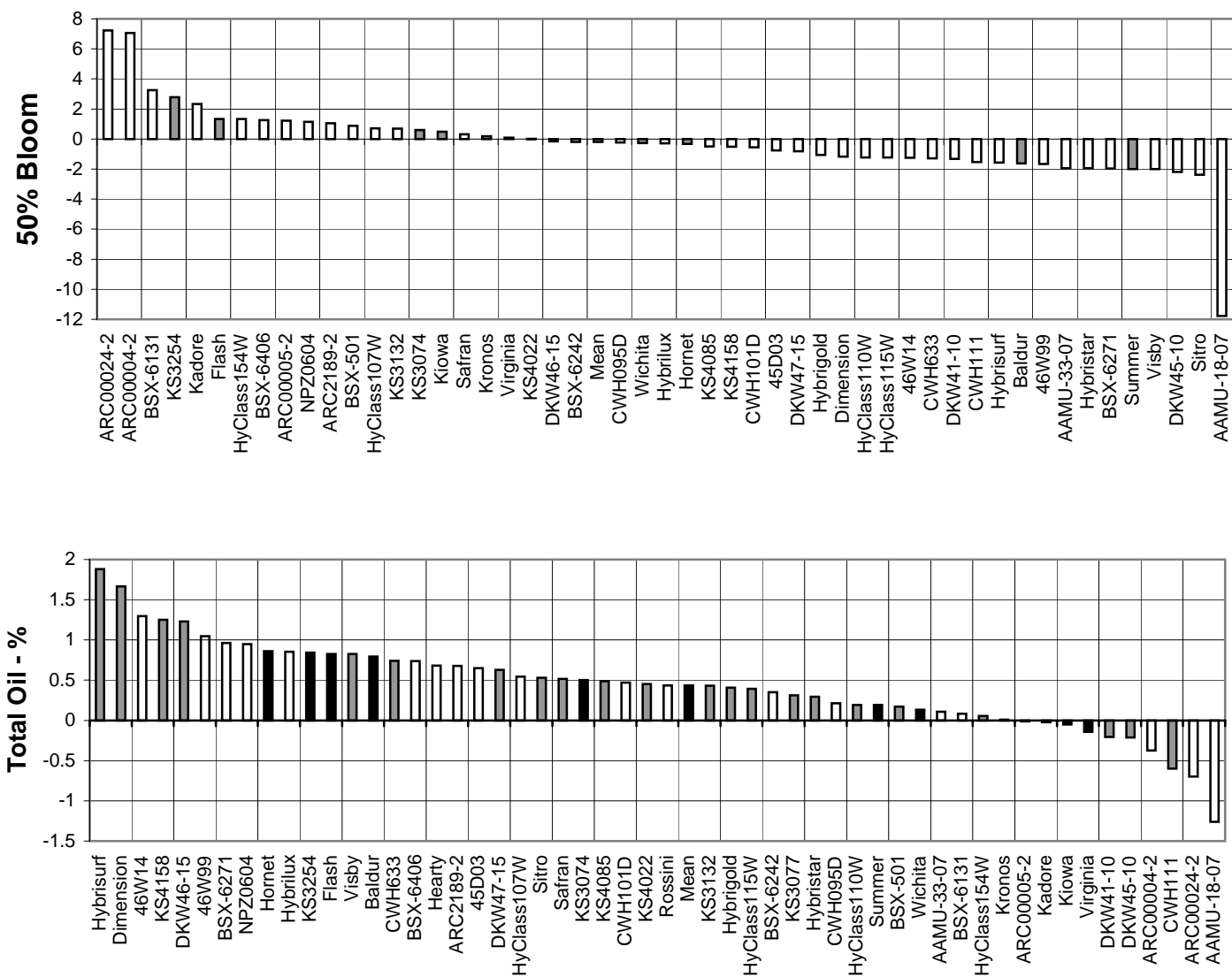


Figure 3. Great Plains Winter Canola Summary, 2005-2009.



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).

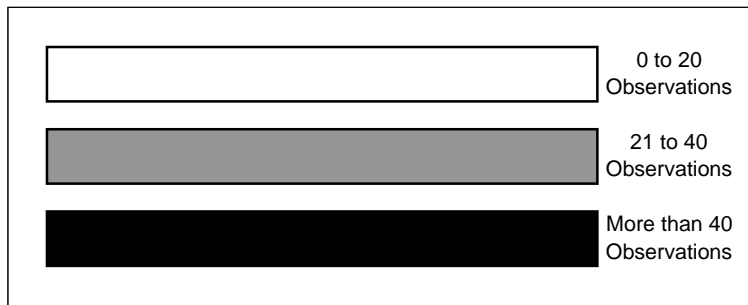
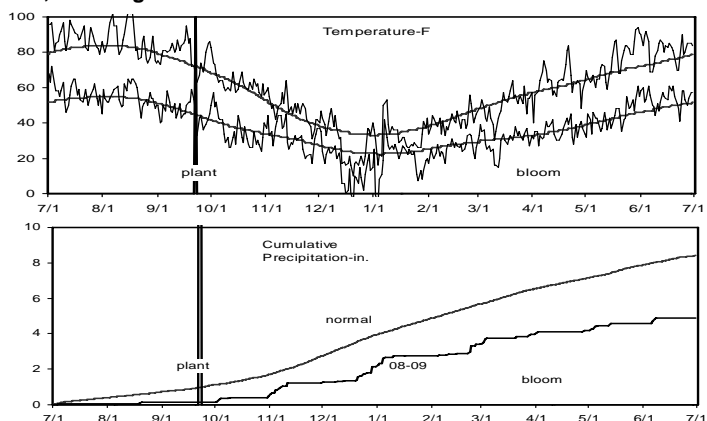


Figure 3. Great Plains Winter Canola Summary, 2005-2009 (continued).

### Othello, Washington

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:



**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		
	2009	2008	2-Yr.	2009	2009	2008	2-Yr.	(0-10)	(d)	(%)	(lb/bu)	(%)	(%)	Oil	
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	
Hyclas110W	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.Ul.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.Ul.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	

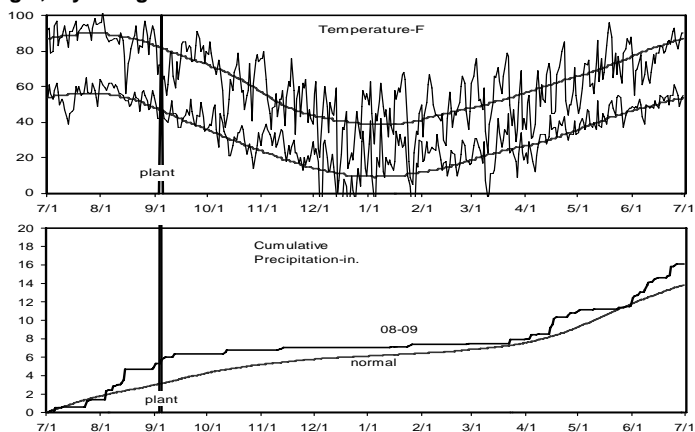
**Table 27. Results for the 2009 National Winter Canola Variety Trial at Othello, WA**

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	<b>43.2</b>	
Hybrilux	2072	---	---	90	---	---	---	---	---	---	---	---	20.3	<b>45.5</b>	
Sumner	2063	3545	2804	90	---	---	---	---	---	---	---	---	<b>24.1</b>	42.4	
UI.WH.5.2	2014	3511	2763	88	---	---	---	---	---	---	---	---	21.4	<b>46.0</b>	
DKW41-10	1944	4207	3075	85	---	---	---	---	---	---	---	---	<b>23.9</b>	42.4	
Kadore	1928	<b>4653</b>	3291	84	---	---	---	---	---	---	---	---	23.3	41.0	
ARC2189-2	1923	---	---	84	---	---	---	---	---	---	---	---	23.0	<b>42.8</b>	
46W99	1901	---	---	83	---	---	---	---	---	---	---	---	19.9	<b>45.2</b>	
ARC00005-2	1863	---	---	81	---	---	---	---	---	---	---	---	21.0	<b>44.2</b>	
Camas+Zeba	1835	---	---	80	---	---	---	---	---	---	---	---	<b>24.2</b>	41.7	
DKW47-15	1819	4063	2941	79	---	---	---	---	---	---	---	---	22.5	<b>43.5</b>	
Athena	1794	4264	3029	78	---	---	---	---	---	---	---	---	<b>25.6</b>	40.3	
HyClass115W	1776	3829	2803	78	---	---	---	---	---	---	---	---	22.3	<b>44.0</b>	
Gospel	1717	2732	2224	75	---	---	---	---	---	---	---	---	22.3	42.2	
UI.WH.5.1	1696	3764	2730	74	---	---	---	---	---	---	---	---	21.9	<b>44.7</b>	
Largo	1642	---	---	72	---	---	---	---	---	---	---	---	<b>27.0</b>	38.4	
HyClass107W	1639	---	---	72	---	---	---	---	---	---	---	---	22.5	<b>44.0</b>	
Ericka	1624	3388	2506	71	---	---	---	---	---	---	---	---	22.0	<b>42.9</b>	
Salute	1561	1547	1554	68	---	---	---	---	---	---	---	---	<b>26.1</b>	39.1	
Hearty	1509	---	---	66	---	---	---	---	---	---	---	---	21.3	<b>45.6</b>	
Rattler	1509	---	---	66	---	---	---	---	---	---	---	---	22.2	42.0	
Rapier	1479	3413	2446	65	---	---	---	---	---	---	---	---	23.3	42.1	
Camas	1448	---	---	63	---	---	---	---	---	---	---	---	22.1	<b>43.9</b>	
<b>Mean</b>	2291	3988	---	---	---	---	---	---	---	---	---	---	22.4	43.3	
<b>CV</b>	28	14	---	---	---	---	---	---	---	---	---	---	7.8	4.2	
<b>LSD (0.05)</b>	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.

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:

### Lingle, Wyoming



**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	<b>3779</b>	---	---	130	<b>96</b>	---	---	9.3	134	46	---	20.1	45.0	
Hybrilux	<b>3654</b>	---	---	126	85	---	---	9.0	139	52	---	22.3	43.0	
KS4158	<b>3275</b>	2348	2812	113	<b>93</b>	<b>93</b>	93	9.3	137	45	---	19.3	46.1	
Safran	<b>3231</b>	2374	2802	112	87	87	87	9.3	137	43	---	19.3	44.4	
Visby	<b>3228</b>	2343	2786	111	<b>95</b>	<b>96</b>	96	8.8	133	42	---	19.9	43.6	
BSX-6271	<b>3170</b>	---	---	109	<b>93</b>	---	---	9.0	136	46	---	21.2	43.9	
KS3074	<b>3148</b>	<b>2479</b>	2813	109	<b>93</b>	<b>95</b>	---	9.5	137	49	---	20.8	43.9	
ARC00024-2	<b>3122</b>	---	---	108	<b>92</b>	---	---	9.0	140	49	---	21.7	41.7	
Kronos	3076	<b>2835</b>	2956	106	<b>92</b>	<b>95</b>	93	8.7	136	50	---	18.6	44.9	
Virginia	3070	1736	2403	106	<b>95</b>	<b>96</b>	96	9.2	138	44	---	21.5	42.5	
KS4022	3023	2175	2599	104	<b>95</b>	<b>96</b>	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	<b>94</b>	---	---	8.5	138	48	---	17.3	45.2	
46W99	2973	---	---	103	85	---	---	9.2	138	42	---	19.3	45.5	
BSX-501	2961	---	---	102	<b>95</b>	---	---	9.5	138	48	---	20.9	43.5	
Hybristar	2939	<b>2417</b>	2678	101	82	<b>91</b>	86	9.3	138	41	---	19.5	45.1	
HyClass154W	2928	2219	2574	101	<b>90</b>	<b>89</b>	90	9.3	138	50	---	21.3	43.4	
KS4085	2918	<b>2534</b>	2726	101	<b>96</b>	<b>97</b>	97	9.4	136	47	---	21.3	42.9	
Kadore	2913	<b>2917</b>	2915	101	<b>93</b>	95	94	9.3	138	40	---	20.0	43.3	
45D03	2907	---	---	100	<b>93</b>	---	---	9.0	138	42	---	19.0	45.4	
KS3254	2890	2178	2534	100	<b>95</b>	<b>96</b>	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	<b>94</b>	---	---	9.2	139	50	---	20.8	42.9	
Kiowa	2831	<b>2506</b>	2668	98	<b>95</b>	<b>96</b>	96	9.2	137	47	---	21.2	42.2	
KS3132	2824	2263	2543	97	<b>96</b>	<b>95</b>	96	9.0	137	49	---	19.7	44.1	
BSX-6242	2816	---	---	97	<b>95</b>	---	---	9.2	136	46	---	20.4	43.9	
BSX-6406	2800	---	---	97	<b>95</b>	---	---	9.5	137	46	---	20.1	44.5	
ARC00005-2	2770	---	---	96	<b>92</b>	---	---	9.2	138	47	---	19.2	44.5	
Baldur	2742	2308	2525	95	<b>93</b>	<b>92</b>	93	9.0	136	47	---	19.1	44.5	
AAMU-33-07	2725	---	---	94	<b>90</b>	---	---	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	<b>95</b>	<b>96</b>	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	<b>92</b>	---	---	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	<b>95</b>	<b>90</b>	93	8.7	135	43	---	20.1	43.0	
BSX-6131	2395	---	---	83	<b>96</b>	---	---	9.3	137	47	---	20.4	43.8	
46W14	2346	---	---	81	82	---	---	9.2	141	46	---	20.8	43.9	
<b>Mean</b>	2897	2200	---	---	91	92	---	9.1	137	46	---	20.2	43.8	
<b>CV</b>	14	14	---	---	5	6	---	4.5	6	6	---	7.3	2.7	
<b>LSD (0.05)</b>	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.

Torrington, Wyoming

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:

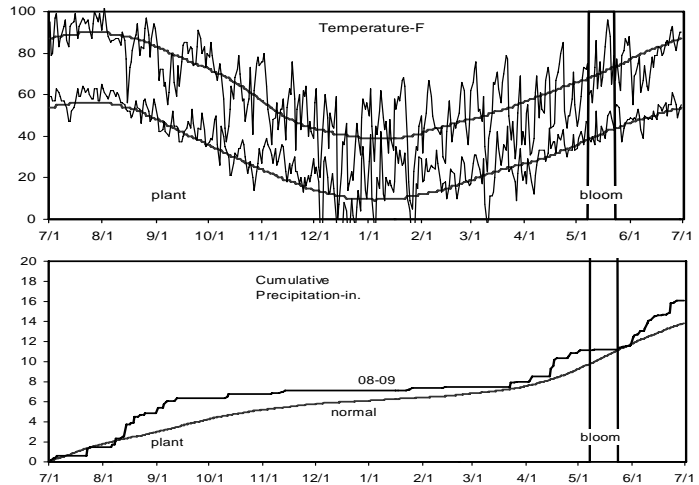


Table 29. Results for the 2009 National Winter Canola Variety Trial at Torrington, WY

Name	Yield (lb/a)			Yield (% of test avg.)			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	
<b>Mean</b>	2693	2722	---	---	77	74	---	75	136	41	1.9	8.7	25.9	39.6	
<b>CV</b>	14	13	---	---	13	14	---	9	1	5	41.9	14.2	1.8	1.7	
<b>LSD (0.05)</b>	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.



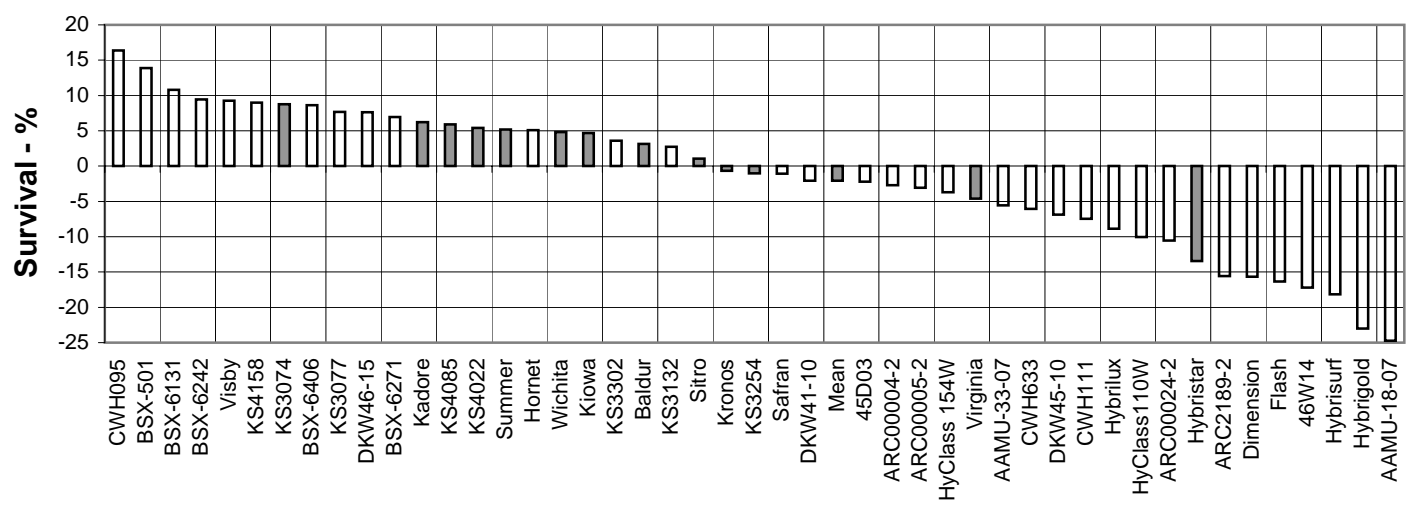
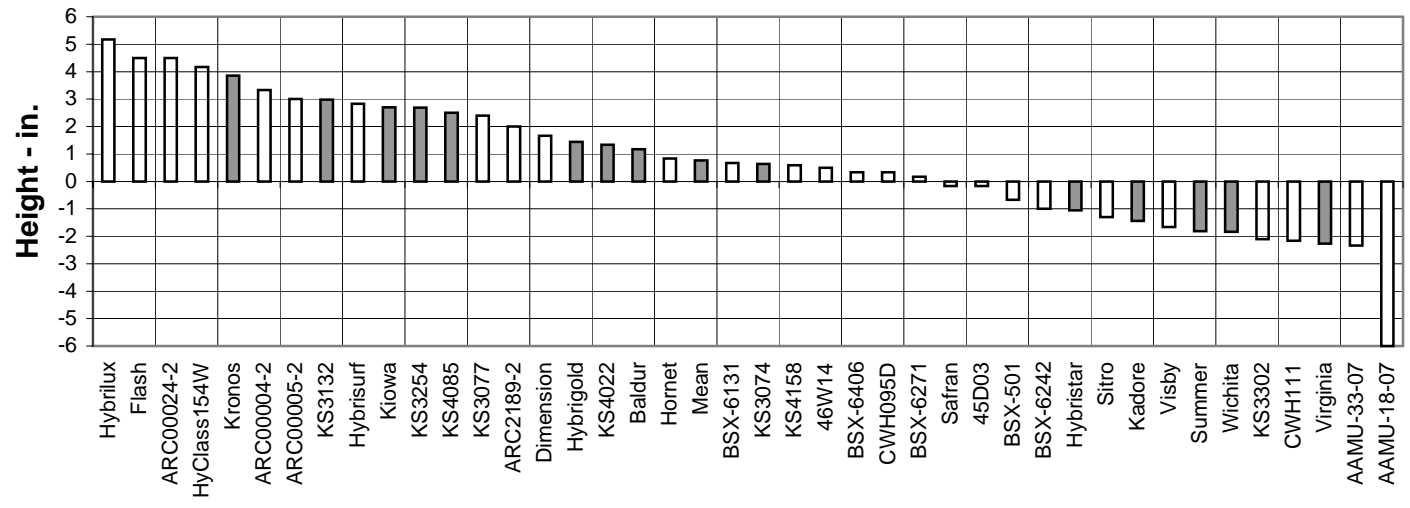
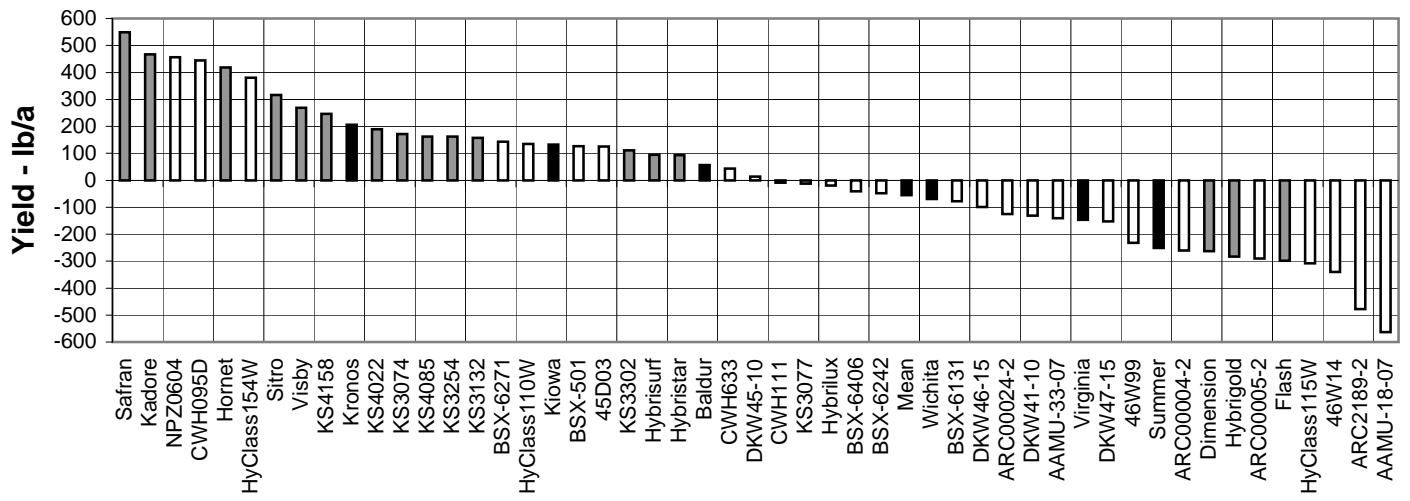
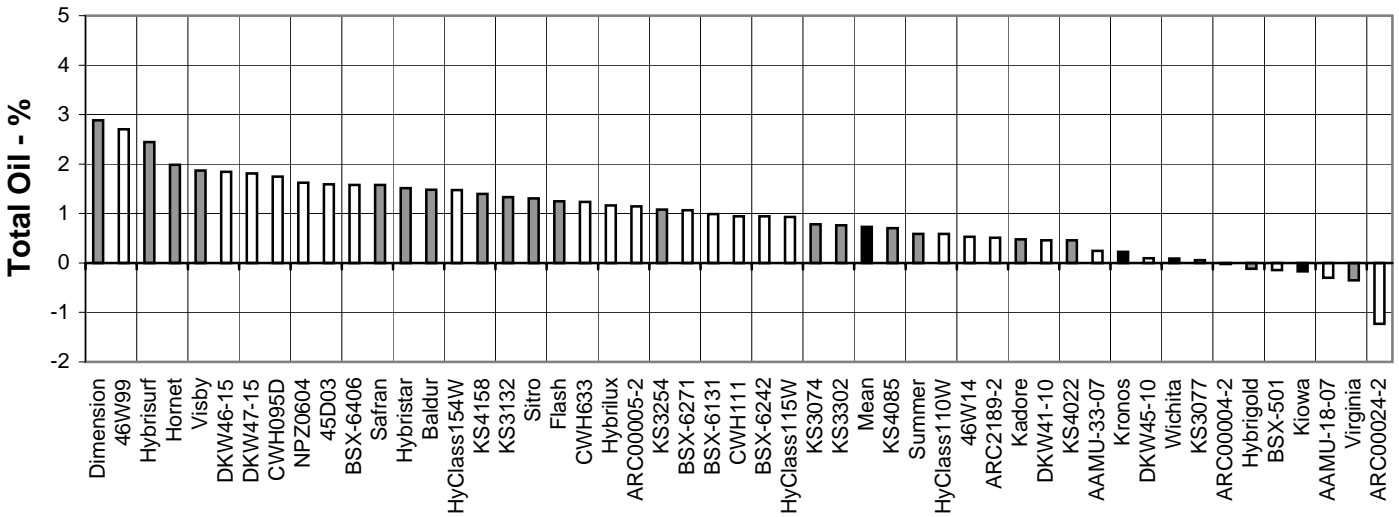
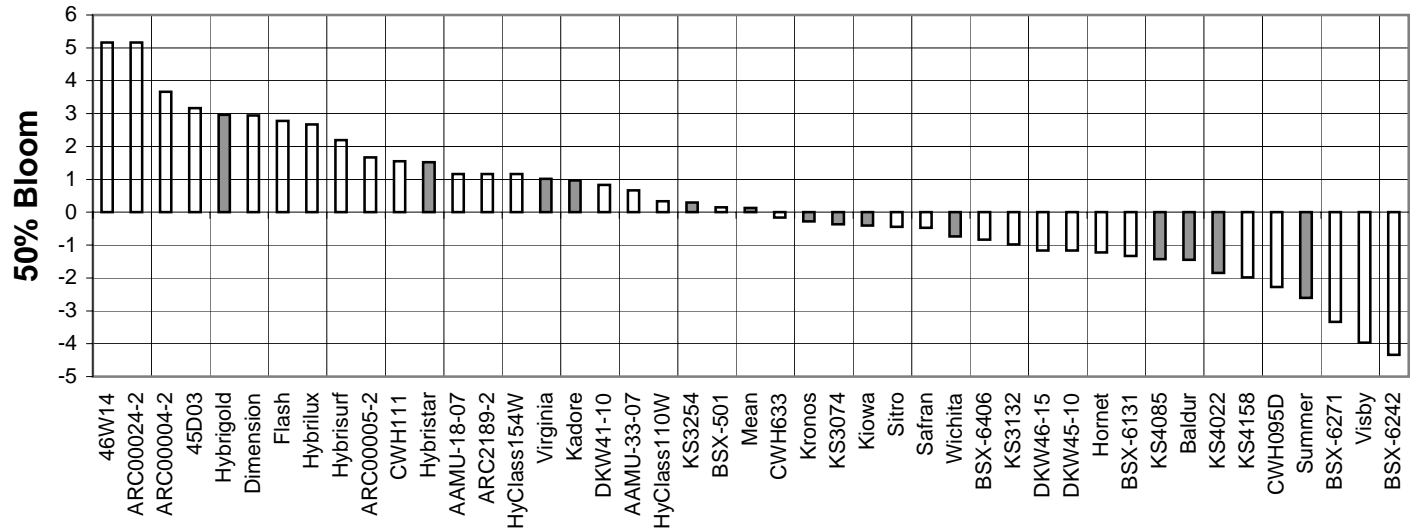


Figure 4. Northern Winter Canola Summary, 2005-2009.



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).

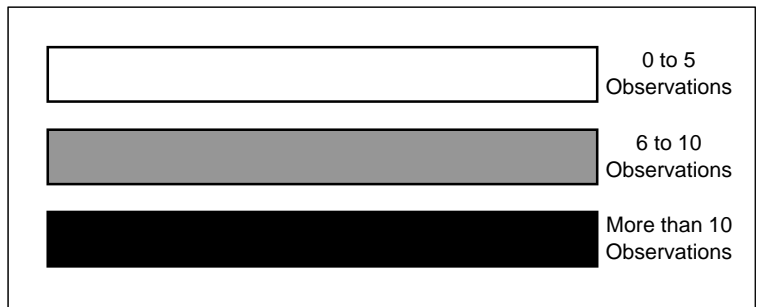


Figure 4. Northern Winter Canola Summary, 2005-2009 (continued).

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

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

<sup>1</sup>Blackleg rated as total percentage of plants killed by blackleg or with severe basal stem canker.

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

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