2024



Report of Progress 1192



Kansas State University Agricultural Experiment Station and Cooperative Extension Service

2024 National Winter Canola Variety Trial and Roundup Ready Variety Trials

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Contribution no. 25-210-S from the Kansas Agricultural Experiment Station

2024 National Winter Canola Variety Trial

Objectives

The objectives of the National Winter Canola Variety Trial (NWCVT) are to evaluate the performance of released and experimental varieties, determine where these varieties are best adapted, and increase the visibility of winter canola across the United States. Breeders, marketers, and producers use data collected from the trials to make informed variety selections. The NWCVT is planted at locations in the Great Plains, Northern Plains, Midwest, and Southeast.

Procedures

Seed for the NWCVT was distributed to 26 test sites in 16 states for the 2023–2024 growing season. The locations receiving seed are illustrated on the map on the front cover. See the back cover for a listing of participating cooperators. Of the 60 entries, 15 are open pollinated and 45 are hybrid. These entries were provided by eight seed suppliers. All entries in the trial were treated with insecticide and fungicide seed treatments to control insects and seedling diseases through the late fall and early winter months.

Open-pollinated and hybrid cultivars were planted in separate, side-by-side trials at sites where all entries were planted. Results for each trial were analyzed individually and are presented in separate tables for each test site.

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

Near infrared spectroscopy was used for total oil and protein analyses. The Kansas State University canola breeding program provided these analyses for all test sites.

The NWCVT continues in the 2024–2025 growing season and includes 48 entries. Eight

seed suppliers contributed to the trial, and it was distributed to 30 locations in 17 states.

2023–2024 Growing Conditions

Temperature and precipitation data are shown at the top of the page for each test site. Thick black lines on the temperature graphs represent longterm average high and low temperatures (°F) for the test site. 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 "23-24" represents actual precipitation. If weather information was not provided, data were taken from a nearby town.

In general, the 2023–2024 growing season was markedly improved over the previous growing season. Establishment conditions were adequate, and winterkill was mostly observed where establishment was poor. Poor stands were especially common in the arid High Plains. As a whole, trials in the Central Plains fared better as timely rains fell. In the Southeast, excessive rainfall close to harvest negatively impacted yields. High oil contents at harvested locations indicate conditions improved near the end of grain filling

Test Sites and Results

Seventeen harvested test sites in 11 states are included in this report: Vincennes, IN; Garden City, Hutchinson, Manhattan, and Norwich, KS; St. Joseph, LA; Newton and Stoneville, MS (2); Creston, MT; Clovis, NM; Perkins, OK; Florence, SC; Ashland City and Springfield, TN; Orange, VA; and Alburgh, VT. As a whole, the trials yielded slightly less than average. Trial means ranged from 249 to 3,148 lb per acre.

Nine locations were not harvested or had poor data quality because of inadequate stand establishment, winterkill, herbicide carryover, or lack of vernalization.

The "percentage of test average" yield calculation is included in the results. This relative yield calculation allows for some comparison of performance across environments. Entries yielding greater than 100% of the test average across multiple test sites merit some consideration.

Caution should be used when evaluating data from test sites with coefficient of variation (CV) values greater than 20. Lower values suggest less error was observed at the test site. Inestimable differences in soil type, weather, and environmental conditions play a part in increasing experimental error and CV values. Numerous test sites have CV values of greater than 20. Even if yield data are unreliable, other data collected by the cooperator may be useful.

Variety Selection

Winter hardiness is an important trait to consider when selecting a winter canola variety. This trait has been improved, but variability still exists where differential winterkill occurs. Winter canola varieties should show consistent survival across multiple years and sites. Other traits to consider include herbicide resistance, tolerance to carryover from sulfonylurea herbicides, maturity, disease tolerance, yield potential, and oil content. More than one year of data should be used to make an informed variety selection decision. Canola weighs 50 lb/bushel, so a 2,000 lb/acre yield is 40 bushels/acre.

View Table 29 for seed sources, contact information, brand names, and traits of the winter canola varieties, and hybrids grown in the NWCVT.

Acknowledgments

This work was funded in part by the fees paid by seed suppliers, the USDA-NIFA awards 2021-38624-35736 and 2021-67013-33782, and the Agricultural Experiment Station. Kansas Assistant scientist Allison Aubert assisted with organizing, packaging, planting, harvesting, data collection, and publication writing. Sincere appreciation is expressed to all participating researchers and seed suppliers who have a vested interest in expanding winter canola acres and increasing production in the United States. Brand names appearing in this publication are for product identification purposes only. No endorsement is intended, nor is criticism implied of similar products not mentioned.

Special Dedication

This annual report of progress is dedicated to the memory of Bob and Lori Schrock of Kiowa, KS. Bob and Lori tragically lost their lives in the American Airlines Flight 5342 mid-air collision. They were pioneering farmers, beloved community members, and former NWCVT site hosts. Their contributions to the testing, research, and promotion of winter canola in the Great Plains region and nationally will be dearly missed.

St. Joseph, Louisiana

Dennis Burns Louisiana State University AgCenter

Planted: Seeding Rate OP: Seeding Rate Hybrid: Desiccant:	10/17/2023 in 8-in. rows 500,000 seeds/a 300,000 seeds/a 5/21/2024 Paraguat 25	
Harvested:	6/7/2024	id al/a
Herbicides:	None	
Insecticides:	None	
Fungicide:	None	
Previous crop:	Soybean	
Soil test:	P= 22ppm, K= 83.5ppm	i, pH= 6.1
Fertilizer:	Spring: 120-60-60 lb/a N	N-P-K split application
Soil type:	Commerce silt loam	Lattitude: 32.945278
Elevation:	74 ft.	Longitude: -91.228333
Comments:	Excessive rain for two w time caused severe yiel	

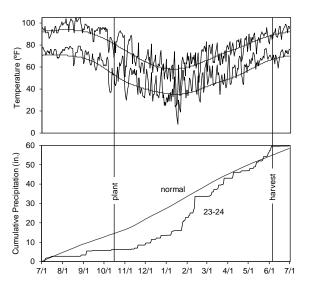


Table 1. Results for the 2024 National Winter Canola Variety Trial, open-pollinated cultivars, at St. Joseph, LA

				Yield (% of	Wint	er sur	vival	Fall	50%	Plant		Test		
Name	Yie	eld (lb/a	ı) ¹	test avg.)		(%)		vigor	bloom	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN														
CP225WRR	279			112					78	57	7.5		23.2	38.0
CP320WRR	189			76					76	52	8.1		23.5	37.8
CP1022WC	98			39					80	55	7.5		23.2	37.5
CP1066WC	291			117					78	62	8.8		21.9	38.8
Kansas State Univer	sity													
KS4662	277			111					78	60	8.4		22.2	38.6
KS4737	367			147					82	60	6.9		22.3	38.9
KSR4767	328			132					78	59	7.3		23.2	38.5
KSR4839S	177			71					79	60	7.4		22.3	39.5
KSR4848	250			100					79	55	7.9		22.9	38.6
KSR4854S	156			63					79	59	7.9		22.9	38.1
KSUR1212	248			100					79	60	7.6		22.3	38.9
Surefire	204			82					82	55	8.3		24.0	37.6
Wichita	314			126					78	63	8.4		23.5	38.0
Ohlde Seed Farms														
Torrington	318			128					80	56	6.8		22.9	38.2
Star Specialty Seed														
Star 930W	241			97					79	55	7.3		22.5	38.3
Grand Mean	249								79	58	7.7		22.9	38.3
CV	33								2	6	9.5		1.6	1.5
LSD (0.05)	139								3	ns	ns		0.8	ns
P-value	0.029								0.038	0.066	0.078		0.002	0.14

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

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

Table 2. Results for the 2024 National Winter Canola Variety Trial, hybrid cultivars, at St. Joseph, LA

				Yield (% of				Fall	50%	Plant	,	Test		
Name	Yie	ld (lb/a	a) ¹	test avg.)	vviiit	(%)	vivai	vigor	bloom	height	Moisture		Protein	Oil
Hamo	2024	2023		2024	2024	2023	2-vr.	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Science			_ ,				_ ,	(/	()	()	(,,,)	((,,,)	(,,,,
DK SEQUEL	630			71					78	54	6.9		22.7	37.1
DK SEVERNYI	921			104					80	60	6.6		21.4	38.6
DK SEPHOR	876			99					80	57	7.4		21.7	38.1
DK EXPOWER	890			100					78	61	7.4		21.1	39.2
DK EXSTORM	1161			131					80	58	7.4		21.3	39.0
DK EXTERRIER	933			101					77	60	7.0		20.7	37.9
DK EXENTIEL	1052			119					78	62	7.2		19.9	40.0
DK EXCEPTION	1052			119					70 79	62	7.6		21.2	38.1
				82										38.7
DK EXCLAIM	724								81	62	7.0		20.8	
DK EXSTAR	911			103					79 70	61	6.9		20.4	39.7
DK EXTREMUS	1143			129					78	62	7.1		20.7	39.8
DK EXSTEEL	815			92					79	61	8.0		19.9	39.7
DK EXPAT	977			110					78	63	7.0		21.6	37.8
DK EXLEVEL	1099			124					78	59	7.3		20.3	38.4
DK EXCITY	972			110					77	64	7.5		21.9	39.1
DK EXOTTER	1041			117					78	56	7.1		20.9	38.0
DK EXSUN	986			111					78	65	7.0		20.1	39.3
DK EXTRACT	902			102					79	62	6.0		22.9	37.6
DK EXIMA	987			111					78	59	7.3		20.4	39.2
DK EXPORTER	1145			129					78	57	6.9		20.8	39.2
DK EXPACITO	971			109					79	62	6.9		21.6	38.9
Corteva Agriscience														
PT264	525			59					79	66	6.5		21.7	40.2
PT299	561			63					76	63	6.7		19.7	41.3
PT302	739			83					81	61	6.9		20.9	40.3
PT303	627			71					78	65	7.0		20.9	40.1
PT312	395			45					80	62	7.0		21.6	38.8
PT314	1228			138					79	62	6.3		20.6	40.4
PT319	1192			134					78	61	7.2		23.1	36.8
PT320	850			96					82	62	7.5		22.3	37.8
PT321	673			76					77	65	6.8		21.0	39.9
PT323	627			71					78	61	7.2		20.5	40.9
CROPLAN														
CP1055WC	537			61					76	63	7.5		21.2	38.8
CP1077WC	830			94					82	64	7.2		21.6	38.6
Photosyntech														
PST23YWT930	874			99					79	65	7.0		21.9	38.2
PST23BACL09	816			92					79	62	7.5		21.4	38.7
PST23EX37D	1162			131					77	65	7.2		19.8	41.0
PST23YW1721	909			102					81	64	7.6		22.7	38.4
Rubisco Seeds									•	0.				
Triathlon	784			88					79	64	7.1		21.5	38.4
Janosh	379			43					77	54	7.0		21.3	37.8
Drifter	1240			140					79	55	6.5		22.0	38.5
Manhattan	784			88					77	63	7.2		21.1	38.6
Beatrix CL	1317			00 148					78	63 62	6.8		21.1	30.0 39.3
Grand Mean	887								78	62	7.1		21.9	39.3
CV									3	6				
	29										10.0		4.5	2.8
LSD (0.05)	411								ns 0.001	6	ns 0.740		ns 0.420	2.2
P-value	<.0005								0.291	0.004	0.710		0.130	0.040

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

Newton, Mississippi

Dictertusining			
Mississippi State Ur	niversity		
Planted: Seeding Rate OP: Seeding Rate Hybrid Desiccant: Harvested: Herbicides: Insecticides: Fungicide:	10/16/2023 in 500,000 seeds d: 300,000 seeds None 6/3/2024 1 pt/a Treflan None None	s/a	(L) 00 10 10 10 10 10 10 10 10 10
Previous crop: Soil test: Fertilizer: Soil type: Elevation:	Soybean	=272 lb/a, pH=6.9 ter	Cumulative Precipitation (in) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Comments:	High fertility fro	om poultry litter may eater rates of lodging in	P 0 7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1 6/1 7/1

Table 3. Results for the 2024 National Winter Canola Variety Trial, open-pollinated cultivars, at Newton, MS

Brett Rushing

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant				
Name	Yie	eld (lb/	'a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Lodging	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)	(%)
CROPLAN															
CP225WRR	1017			176						83	49	53.3	16.2	21.1	40.3
CP320WRR	618			107						80	46	38.3	19.6	21.6	40.7
CP1022WC	320			55						90	50	63.3	5.4	21.1	41.5
CP1066WC	392			68						85	58	16.7	17.0	20.2	41.5
Kansas State Univer	sity														
KS4662	470			81						83	55	13.3	10.0	20.1	41.9
KS4737	520			90						83	50	60.0	14.8	20.3	42.2
KSR4767	383			66						85	53	46.7	8.9	22.0	39.9
KSR4839S	467			81						83	48	26.7	10.6	21.5	40.6
KSR4848	610			106						85	54	23.3	20.4	21.1	40.7
KSR4854S	608			105						85	53	23.3	17.9	22.0	39.9
KSUR1212	578			100						87	50	60.0	17.5	20.7	42.0
Surefire	635			110						88	50	33.3	22.3	22.0	40.6
Wichita	702			122						87	57	13.3	23.1	20.8	42.2
Ohlde Seed Farms															
Torrington	698			121						82	54	50.0	22.0	20.8	41.9
Star Specialty Seed															
Star 930W	637			110						82	50	63.3	18.6	20.6	42.1
Grand Mean	577									85	52	39.0	16.3	21.0	41.2
CV	48									3	8	57.5	61.3	3.6	2.1
LSD (0.05)	ns									4	ns	37.5	ns	ns	ns
P-value	0.387									<.0005	0.055	0.046	0.600	0.240	0.131

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

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

Table 4. Results 10				Yield (% of				Fall	Fall	50%	Plant				
Name	Yi	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor			Lodging	Moisture	Protein	Oil
		2023		2024	2024		2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)	(%)
Bayer Crop Science	е														
DK SEQUEL	843			94				8.0	4.3	83	46	30.0	12.7	20.8	39.4
DK SEVERNYI	568			63				8.0	4.3	90	45	33.3	9.8	19.5	41.8
DK SEPHOR	767			85				8.0	4.3	90	50	30.0	12.8	18.4	43.0
DK EXPOWER	1072			119				8.0	4.3	83	50	33.3	10.8	17.0	44.5
DK EXSTORM	995			110				8.0	4.3	87	49	43.3	16.0	17.9	43.4
DK EXTERRIER	853			95				8.0	4.3	88	37	36.7	14.6	19.0	41.0
DK EXENTIEL	867			96				8.0	4.3	87	38	40.0	12.8	18.9	41.7
DK EXCEPTION	733			81				8.7	4.3	90	38	40.0	14.0	18.8	41.2
DK EXCLAIM	732			81				8.7	4.3	90	40	33.3	16.8	18.7	43.1
DK EXSTAR	732			81				8.7	4.3	88	42	33.3	12.1	17.4	44.8
DK EXTREMUS	1073			119				8.7	4.3	85	49	13.3	12.6	17.2	44.2
DK EXSTEEL	538			60				8.7	4.3	88	28	66.7	13.6	18.0	42.9
DK EXPAT	843			94				8.7	4.3	87	48	33.3	14.7	17.7	42.8
DK EXLEVEL	932			103				8.7	4.3	83	48	36.7	16.3	18.9	41.1
DK EXCITY	500			55				10.0	5.0	88	54	6.7	11.3	18.1	43.9
DK EXOTTER	1060			118				10.0	5.0	85	46	23.3	12.8	18.4	42.5
DK EXSUN	633			70				10.0	5.0	87	44	3.3	9.1	18.2	42.2
DK EXTRACT	838			93				10.0	5.0	88	45	43.3	16.2	19.3	41.1
DK EXIMA	545			60				8.7	4.3	83	49	43.3	11.2	18.1	42.6
DK EXPORTER	737			82				8.7	4.3	82	46	40.0	13.3	17.3	43.9
DK EXPACITO	618			69				8.7	4.3	88	46	36.7	12.8	18.2	44.1
Corteva Agriscienc				00				0.1					.2.0		
PT264	533			59				8.7	4.3	90	34	33.3	9.0	17.3	45.2
PT299	1257			139				8.7	4.3	87	46	28.3	23.2	20.8	40.1
PT302	528			59				10.0	5.0	88	46	50.0	9.2	18.9	42.6
PT303	803			89				10.0	5.0	87	57	0.0	11.4	19.4	40.8
PT312	1282			142				10.0	5.0	88	57	23.3	13.4	18.2	43.4
PT314	1097			122				10.0	5.0	83	62	13.3	13.2	18.2	44.6
PT319	1237			137				10.0	5.0	87	53	20.0	15.5	18.9	42.5
PT320	1110			123				10.0	5.0	90	60	23.3	18.6	20.5	40.7
PT321	993			110				10.0	5.0	85	54	13.3	13.9	19.3	42.4
PT323	740			82				10.0	5.0	88	48	60.0	12.9	18.5	44.6
CROPLAN	110			02				10.0	0.0	00	10	00.0	12.0	10.0	11.0
CP1055WC	602			67				8.0	4.3	85	54	26.7	9.6	19.3	40.6
CP1077WC	820			91				8.0	4.3	88	50	33.3	13.4	19.2	41.4
Photosyntech	020			0.				0.0				00.0			
PST23YWT930	1330			147				10.0	5.0	90	65	0.0	22.0	19.9	42.1
PST23BACL09	843			94				10.0	5.0	85	58	36.7	17.9	19.8	42.1
PST23EX37D	1432			159				10.0	5.0	80	65	3.3	15.9	18.7	42.5
PST23YW1721	1267			140				10.0	5.0	85	62	0.0	20.9	18.7	41.5
Rubisco Seeds									0.0			0.0	20.0		
Triathlon	1023			113				10.0	5.0	90	56	30.0	14.2	19.9	42.3
Janosh	1065			118				10.0	5.0	83	50	0.0	15.5	20.0	41.4
Drifter	952			106				10.0	5.0	82	44	10.0	15.5	20.0	40.6
Manhattan	938			100				10.0	5.0	85	54	26.7	22.9	19.6	41.3
Beatrix CL	1545			171				10.0	5.0	85	57	6.7	20.0	19.5	41.6
Grand Mean	902							9.2	4.7	87	49	27.1	14.4	18.8	42.3
CV	42							16.1	12.5	3	24	107.1	35.4	6.7	4.8
LSD (0.05)	513							ns	ns	4	ns	ns	ns	ns	ns
P-value	0.071							0.488				0.557	0.061	0.344	0.597
Pold: Superior I SD				trice differ by					0.400		0.100				0.007

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

Stoneville, Mississippi

Andrew Hopkins Corteva Agriscience

Planted:	10/17/2023 in 7-in. r	ows
Seeding Rate Hybrid:	: 300,000 seeds/a	
Desiccant:	None	
Harvested:	6/7/2024	
Herbicides:	None	
Insecticides:	None	
Fungicide:	None	
Previous crop:	N/A	
Fertilizer:	N/A	
Soil type:	N/A	Latitude: N/A
Elevation:	N/A	Longitude: N/A
Comments:		nd standing water caused e open-pollinated trial, ested.

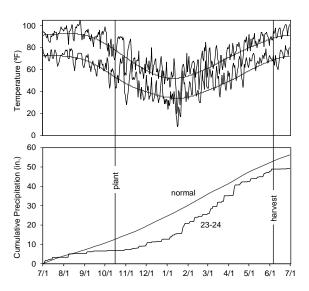


Table 5. Results for the 2024 National Winter Canola Variet	v Trial hybrid cultivars at Stoneville MS

				Yield (% of	Wint	er sui	rvival	Fall	First	Plant		Test		
Name	Yie	eld (lb/a	a) ¹	test avg.)		(%)		stand	Bloom	height	Moisture	weight	Protein	Oil
	2024			2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Science														
DK SEQUEL	1796			121					93		9.2	48.6	26.7	33.4
DK SEVERNYI	1750			118					95		8.5	49.8	26.9	32.7
DK SEPHOR	953			64					100		8.4	42.0	22.6	39.5
DK EXPOWER	1207			81					95		7.1	47.8	25.7	34.5
DK EXSTORM	2073			140					95		7.7	47.5	24.7	35.0
DK EXTERRIER	1546			104					100		8.3	46.7	26.2	33.6
DK EXENTIEL	1559			105					93		8.3	46.2	26.3	34.1
DK EXCEPTION	1490			101					96		9.2	44.5	26.2	33.3
DK EXCLAIM	927			63					98		9.3	42.2	27.1	32.7
DK EXSTAR	1882			127					94		8.7	47.4	25.4	34.8
DK EXTREMUS	1833			124					93		8.1	50.1	26.5	34.2
DK EXSTEEL	1422			96					97		9.8	42.7	25.9	34.4
DK EXPAT	1501			101					97		8.3	47.7	24.9	35.0
DK EXLEVEL	1353			91					93		7.9	43.8	26.2	34.0
DK EXCITY	1790			121					94		7.6	49.8	26.6	33.3
DK EXOTTER	1071			72					96		6.9	41.1	25.0	34.5
DK EXSUN	1824			123					93		8.6	48.7	25.6	34.5
DK EXTRACT	1712			116					94		7.3	48.3	26.2	33.9
DK EXIMA	1783			120					91		9.1	49.8	25.7	34.7
DK EXPORTER	1375			93					92		7.3	47.0	25.3	34.6
DK EXPACITO	1338			90					96		8.4	44.1	26.7	34.1
Corteva Agriscience														
PT264	995			67					101		7.0	44.5	26.2	34.6
PT299	1538			104					94		6.6	47.8	26.4	34.1
PT302	1592			107					102		7.2	47.4	26.0	35.1
PT303	1004			68					100		7.3	43.3	25.6	35.1
PT312	1037			70					102		9.9	43.0	25.7	35.7
PT314	1345			91					95		7.1	47.4	26.8	35.2
PT319	1597			108					95		9.2	49.5	26.6	33.9
PT320	1468			99					103		7.8	46.0	26.3	34.5
PT321	1341			91					96		7.3	47.4	26.2	34.3
PT323	1817			123					97		8.5	47.8	27.0	33.7

Name	Yie	eld (lb/a	a) ¹	Yield (% of test avg.)	Wint	er sur (%)	vival	Fall stand	First Bloom	Plant height	Moisture	Test weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN														
CP1055WC	1473			99					94		8.1	46.9	24.7	36.0
CP1077WC	1253			85					101		8.7	45.2	27.0	33.4
Grand Mean	1481								96		8.1	46.4	26.0	34.4
CV	23								2		7.9	5.1	4.8	4.2
LSD (0.05)	733								4		1.4	5.0	ns	ns
P-value	0.139								<.0001		0.001	0.016	0.440	0.206

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

Stoneville, Mississippi

Corteva Agriscience				100 -	marta w	N NA MAN
Planted:	9/20/2023 in 7-in. rows		Temperature (°F)	80	Montoffere	WHAT AND
Seeding Rate Hybrid	: 300,000 seeds/a		ature	60 -	1.11	HALL MARKAN AND AN ANTIMIN MALLY
Desiccant:	None		pera	40 -		THAT ALL MAN ALL THE THE
Harvested:	5/30/2024		Ter	20 -		
Herbicides:	None			20 -		N. I I I
Insecticides:	None			0 L		
Fungicide:	None		_	⁶⁰ T		
Previous crop:	Soybean		(in.)	50 -		
Fertilizer:	N/A		Precipitation (in.)		plant	/ march
			ipita	40 -	<u>م</u>	normal
Soil type:	Bosket very-fine sandy loam	Latitude: 33.4209	Prec	30 -		est han
Elevation:	121 ft.	Longitude: -90.8917		20 -		23-24
Comments:	Excessive rainfall and standing w		Cumulative	10 -		
	caused severe lodging in the ope	en-	Cu			
	pollinated trial, which was not			0 4 7/*	1 8/1 9/1 10)/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1 6/1 7/1
	harvested.					

Table 6. Results for the 2024 National Winter Canola Variety	v Trial, hvbrid cultivars, at Stoneville, MS

Andrew Hopkins

				Yield (% of	Wint	er su	vival	Fall	First	Plant		Test		
Name	Yie	eld (lb/a	a) ¹	test avg.)		(%)		stand	Bloom	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Science														
DK SEQUEL	1545			102							10.9	44.5	20.8	39.8
DK SEVERNYI	1546			102							10.0	44.5	20.0	42.0
DK SEPHOR	2340			154							8.6	49.7	21.8	40.8
DK EXPOWER	1557			103							9.3	43.1	19.1	43.2
DK EXSTORM	1678			111							10.3	46.1	20.5	40.9
DK EXTERRIER	1622			107							13.2	41.5	21.5	39.9
DK EXENTIEL	1504			99							11.6	40.3	18.8	43.2
DK EXCEPTION	1307			86							10.6	41.8	20.2	41.3
DK EXCLAIM	1678			111							14.0	42.3	20.5	41.9
DK EXSTAR	1377			91							10.2	41.4	19.7	41.7
DK EXTREMUS	1459			96							9.3	44.1	18.6	43.1
DK EXSTEEL	1383			91							10.7	42.9	19.7	43.2
DK EXPAT	1719			113							10.9	42.5	21.0	40.1
DK EXLEVEL	1213			80							9.5	46.8	20.8	40.4
DK EXCITY	1565			103							10.1	43.7	19.3	41.8
DK EXOTTER	1356			89							10.9	44.3	20.5	41.2
DK EXSUN	1527			101							9.6	43.2	20.8	39.9
DK EXTRACT	1728			114							9.0	46.5	17.9	43.4
DK EXIMA	1795			118							9.8	43.3	22.1	41.0
DK EXPORTER	1267			84							9.2	40.3	19.8	42.1
DK EXPACITO	1213			80							9.2	41.3		
Corteva Agriscience														
PT264	1614			106							12.8	40.9		
PT299	1303			86							9.6	44.2	18.8	44.0
PT302	1249			82							7.9	47.3	20.7	42.0
PT303	1358			90							8.7	46.2	19.5	43.5
PT312	1456			96							12.5	42.2	19.2	44.2
PT314	987			65							9.0	40.7	18.6	44.0
PT319	1801			119							11.6	44.0	22.6	39.9
PT320	1463			97							11.0	46.5	22.0	42.0
PT321	1159			76							9.3	43.0	20.0	43.7
PT323	1299			86							8.2	44.7	19.7	44.5

Name	Yie	Yield (lb/a) ¹			Wint			Fall stand	First Bloom	Plant height	Moisture	Test weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN														
CP1055WC	1691			112							10.1	42.6	19.4	42.2
CP1077WC	1919			127							15.1	40.6	21.0	41.1
Grand Mean	1516										10.4	43.6	20.2	41.9
CV	21										17.4	7.2	4.4	2.1
LSD (0.05)	567										3.3	ns	2.0	2.0
P-value	0.020										0.007	0.127	0.005	<.000

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

Florence, South Carolina

W. John Park Clemson University

Clemson University		100 Magan AMA
Planted: Seeding Rate OP:	10/5/2023 in 7.5-in. rows 500.000 seeds/a	E SO WWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWWW
Seeding Rate Hybrid	: 300,000 seeds/a	eo
Desiccant: Harvested:	None 6/4/2024	
Herbicides: Insecticides:	2 pt/a Prowl H2O None	
Fungicide:	None	50
Previous crop: Soil test:	Corn P= 106 lb/a, K= 132 lb/a, pH= 5.8	
Fertilizer:	Fall: 80-0-60-40 lb/a N-P-K-S 1900 lb/a lime Spring: 80-0-0-0-1 lb/a N-P-K-S-B	
Soil type:	Noboco loamy sand Latitude: 34.292778	© 20 - 23-24
Elevation: Comments:	138 ft. Longitude: -79.733889 The hybrids significantly outyielded the	Culture Precipitation (iii) 40 - 23-24 - normal - 23-24 - normal - 10 - 23-24 - normal - 10 - 23-24 - normal - 10 - 23-24
	open-pollinated entries at this site.	7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1 6/1 7/1

				Yield (% of	Winte	er surv	vival		Fall	50%	Plant	Test		
Name	Yie	ld (lb/a	a) ¹	test avg.)		(%)		Fall stand	vigor	bloom	height	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0 to 10)	(1-5)	(d)	(in.)	(lb/bu)	(%)	(%)
CROPLAN														
CP225WRR	1229			116	90			7.3	3.0	83	49		18.1	44.4
CP320WRR	1437			135	88			6.5	2.8	81	44		18.2	44.3
CP1022WC	592			56	85			6.0	2.8	91	51		20.9	41.8
CP1066WC	1045			98	88			6.3	2.8	85	52		18.5	43.7
Kansas State Univer	sity													
KS4662	1232			116	88			6.5	3.0	84	50		18.9	43.5
KS4737	1109			104	85			5.8	3.0	84	51		19.0	44.0
KSR4767	992			93	85			6.5	2.8	84	50		18.4	44.5
KSR4839S	880			83	83			5.5	2.3	85	52		17.7	45.1
KSR4848	1007			95	90			6.8	3.0	86	51		18.4	43.6
KSR4854S	876			82	88			7.0	3.0	88	54		18.0	44.6
KSUR1212	1115			105	83			6.5	2.5	84	50		18.4	44.1
Surefire	970			91	83			6.3	2.5	90	50		20.5	42.4
Wichita	1284			121	90			6.8	3.0	84	50		19.3	43.4
Ohlde Seed Farms														
Torrington	1024			96	85			6.5	3.0	82	53		18.4	44.9
Star Specialty Seed														
Star 930W	1133			107	85			6.8	3.0	83	46		18.0	45.0
Grand Mean	1062				86			6.5	2.8	85	50		18.7	44.0
CV	24				5			12.1	12.6	2	6		4.2	2.0
LSD	363				ns			ns	0	3	4		1.7	1.6
P-value	0.012				0.275			0.216	0.066	<.0001	0.013		0.039	0.085

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

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

Table 8. Results for the 2024 National Winter Canola Variety Trial, hybrid cultivars, at Florence, SC

Table 8. Results for t		- Hallo		Yield (% of			-	a calificato	Fall	50%	Plant	Test		
Name	Yie	eld (lb/a	a) ¹	test avg.)	••••••	(%)		Fall stand		bloom	height	weight	Protein	Oil
Humo	2024	2023		2023	2024	2023		(0-10)	(1-5)	(d)	(in.)	(lb/bu)	(%)	(%)
Bayer Crop Science		2020		2020	2021	2020	<u> </u>	(0.10)	(1.0)	(4)	()	(10/104)	(/0)	(/0)
DK SEQUEL	2429			92	90			8.0	4.0	81	49		16.9	42.8
DK SEVERNYI	1946			73	87			8.3	4.0	83	53		17.8	43.3
DK SEPHOR	2779			105	87			8.3	4.0	85	48		17.3	43.9
DK EXPOWER	2598			98	87			7.3	4.0	78	55		16.8	45.5
DK EXSTORM	2924			110	90			8.7	5.7	83	59		16.9	44.7
DK EXTERRIER	2400			91	90			8.7	4.0	85	55		17.0	43.9
DK EXENTIEL	2489			94	87			7.3	4.0	80	56		16.4	45.0
DK EXCEPTION	2512			95	90			8.0	5.0	82	54		16.2	44.0
DK EXCLAIM	2679			101	90			8.0	4.7	86	56		17.7	44.5
DK EXSTAR	3191			121	90			8.3	4.0	82	54		17.4	44.7
DK EXTREMUS	2659			100	90			8.0	5.0	81	55		17.1	45.3
DK EXSTEEL	2220			84	90			7.7	4.0	83	56		16.4	45.3
DK EXPAT	3196			121	87			7.7	4.0	81	55		17.3	43.6
DK EXLEVEL	2968			112	90			8.0	4.0	79	62		15.9	45.5
DK EXCITY	2669			101	90			8.3	4.0	82	55		17.8	44.9
DK EXOTTER	3037			115	90			8.7	5.7	78	52		16.1	44.0
DK EXSUN	2707			102	90			8.3	4.0	81	57		17.7	43.7
DK EXTRACT	2802			106	87			8.3	3.7	81	58		17.2	43.9
DK EXIMA	3200			121	90			7.7	5.0	80	54		16.6	45.2
DK EXPORTER	3412			129	90			8.3	4.0	77	55		16.0	45.6
DK EXPACITO	3065			116	90			8.0	4.0	84	61		17.8	43.3
Corteva Agriscience														
PT264	2763			104	90			8.7	4.0	85	60		18.0	44.3
PT299	2316			87	87			8.3	4.3	81	55		16.9	46.8
PT302	2297			87	87			8.0	3.7	87	54		16.7	45.5
PT303	2499			94	90			9.0	4.3	85	56		16.7	46.8
PT312	2280			86	90			8.7	4.0	87	62		17.7	45.3
PT314	2476			94	90			7.7	4.0	82	61		16.9	47.6
PT319	2824			107	90			8.7	4.0	85	54		20.2	41.1
PT320	2508			95	90			8.7	4.3	89	63		17.4	45.7
PT321	2117			80	90			9.3	4.3	79	60		16.9	47.2
PT323	1939			73	90			8.7	4.3	84	60		17.2	47.1
CROPLAN														
CP1055WC	2869			108	90			8.3	4.7	79	59		16.9	44.5
CP1077WC	2778			105	90			8.3	3.7	85	56		17.4	44.0
Grand Mean	2648				89			8.3	4.3	82	56		17.1	44.9
CV	23				3			11.8	20.6	3	7		4.5	1.7
LSD	ns				ns			ns	ns	4	7		1.5	1.8
P-value	0.476				0.756			0.898	0.480	<.0001	0.001		0.060	<.0001

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

Orange, Virginia

		Orange, v	gina	
Greg Lillard				
Virginia Tech Univer	sity			M
Planted: Seeding Rate OP: Seeding Rate Hybric Desiccant: Harvested: Herbicides: Insecticides:	9/18/2024 in 7.5-in. row 500,000 seeds/a d: 300,000 seeds/a None 6/17/2024 Trifluralin 1.5 pt/a None	S	80 60 60 10 10 10 10 10 10 10 10 10 1	
Fungicide: Previous crop: Soil test: Fertilizer:	None Sudan P=17 ppm, K=269 ppm Fall: 30-50-70-0 lb N-P- Spring: 100-0-0-0 lb N-I	K-S		harvest lammo
Soil type: Elevation: Comments:	Fauquier clay 510 ft. A very-dry fall and below precipitation in the sprir	U U	0 10 7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1	4/1 5/1 6/1 7/1

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant			
Name	Yield (lb/a) ¹			test avg.)		(%)		stand	vigor	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)
CROPLAN														
CP225WRR	927	3430	2179	87				9.3	5.0	93		9.1	25.2	36.0
CP320WRR	1148	3613	2380	107				9.7	5.0	92		8.9	25.0	36.5
CP1022WC	1057	3045	2051	99				10.0	5.0	96		10.6	26.7	34.8
CP1066WC	1238	3295	2267	116				9.7	5.0	96		11.6	25.0	36.6
Kansas State Univer	sity													
KS4662	1153	3197	2175	108				8.7	5.0	93		10.1	24.9	37.6
KS4737	1045	3725	2385	98				9.7	5.0	93		10.1	24.8	38.6
KSR4767	1245	3707	2476	117				10.0	5.0	92		9.9	26.1	35.3
KSR4839S	996	3367	2181	93				10.0	5.0	96		10.0	25.0	38.4
KSR4848	1121	3379	2250	105				10.0	4.7	96		10.7	24.8	37.1
KSR4854S	1283	2997	2140	120				10.0	4.7	93		10.4	24.7	37.4
KSUR1212	1083	3813	2448	101				10.0	5.0	93		10.5	25.4	36.2
Surefire	919	3353	2136	86				9.3	5.0	96		10.9	25.5	36.6
Wichita	1086	3322	2204	102				9.0	4.3	93		9.9	26.3	35.7
Ohlde Seed Farms														
Torrington	939	3276	2108	88				10.0	5.0	93		9.8	24.9	36.8
Star Specialty Seed														
Star 930W	783	3330	2056	73				9.0	4.7	93		9.4	25.9	35.6
Grand Mean	1068	3343						9.6	4.9	94		10.1	25.3	36.6
CV	14	19						6.4	8.1	0		10.3	1.5	1.3
LSD	243	ns						ns	ns	1		ns	0.8	1.1
P-value	0.011	0.897						0.130	0.647	<.0001		0.243	0.001	<.0001

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

¹Yields adjusted to 8% moisture content.

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant			
Name	Yi	eld (lb/a		test avg.)		(%)		stand	vigor	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)
Bayer Crop Science														
DK SEQUEL	1096	6485	3791	147				9.7	5.0			8.5	25.0	36.9
DK SEVERNYI	716	2683	1699	96				8.0	4.7			8.7	25.4	37.0
DK SEPHOR	682	3780	2231	92				9.7	4.3			8.5	23.9	39.0
DK EXPOWER	659	3906	2282	89				9.0	4.7			8.1	25.2	37.8
DK EXSTORM	853	3273	2063	115				9.7	4.7			8.1	25.1	38.7
DK EXTERRIER	769	3190	1980	103				8.3	5.0			8.7	23.8	40.2
DK EXENTIEL	801	3480	2141	108				7.0	4.3			8.2	23.8	40.3
DK EXCEPTION	781	4460	2620	105				8.3	4.3			8.4	24.2	38.7
DK EXCLAIM	330	3555	1942	44				8.7	3.7			8.7	24.2	40.1
DK EXSTAR	504	4182	2343	68				7.7	4.3			9.0	24.0	38.7
DK EXTREMUS	974			131				7.7	5.0			9.0	25.5	38.0
DK EXSTEEL	850			114				9.3	4.3			9.0	23.0	40.8
DK EXPAT	865			116				9.7	4.3			8.2	24.0	39.1
DK EXLEVEL	635			85				9.3	4.3			8.6	25.4	38.0
DK EXCITY	1407			189				10.0	5.0			8.8	24.0	38.7
DK EXOTTER	1199			161				9.0	4.7			8.4	23.8	39.0
DK EXSUN	972			131				9.0	4.3			8.3	22.9	40.6
DK EXTRACT	556			75				7.7	4.3			8.3	24.4	38.0
DK EXIMA	699			94				9.3	4.0			8.0	24.2	38.7
DK EXPORTER	1134			152				9.0	0 5.0			9.6	23.3	38.4
DK EXPACITO	862			116				9.0	5.0			9.1	25.0	37.8
Corteva Agriscience				110				5.0	5.0			5.1	20.0	57.0
PT264	494	2389	1442	66				8.7	4.3			8.3	24.3	40.1
PT299	9 5 9	1546	1253	129				9.7	4.7			10.0	24.5	40.1
PT302	5 84	1700	1142	79				9.7 10.0	4.7			8.4	23.1	40.2
PT302 PT303	564 478	2155	1316	79 64				8.0	4.0 4.3			0.4 10.6	23.2 25.8	36.6
PT312		1914	1130	46				9.0	4.3			8.5	23.8	39.9
	346													
PT314	837	1602	1220	113				9.3	4.3			8.7	23.7	40.5
PT319	610			82				7.0	4.0			8.4	27.2	35.3
PT320	559			75				8.0	4.3			8.5	24.6	39.2
PT321	827			111				9.3	4.3			9.0	23.3	41.0
PT323	895			120				9.7	4.7			8.3	22.9	41.4
CROPLAN														
CP1055WC	866	1933	1400	116				8.3	5.0			8.1	23.4	40.9
CP1077WC	583	3610	2096	78				9.0	4.7			8.9	24.0	39.2
Photosyntech														
PST23YWT930	436			59				7.3	4.3			8.6	25.9	37.8
PST23BACL09	309			42				6.7	3.7			9.6	25.7	36.2
PST23EX37D	1204			162				10.0	5.0			8.5	22.8	39.8
PST23YW1721	392			53				8.3	5.0			9.6	24.2	38.7
Rubisco Seeds														
Triathlon	943			127				9.7	5.0			9.0	24.2	39.0
Janosh	543			73				7.3	3.7			9.0	23.6	40.3
Drifter	818			110				8.7	5.0			7.9	24.1	39.8
Manhattan	657			88				7.0	4.0			9.0	23.8	39.4
Beatrix CL	557			75				8.7	4.0			8.5	25.4	38.1
Grand Mean	744	2956						8.7	4.5			8.7	24.3	39.0
CV	48	36						17.3	15.4			9.5	2.7	2.7
LSD	485	1729						ns	ns			ns	1.3	2.1
P-value	0.060	<.0001						0.280	0.433			0.148	<.0001	<.0001

¹Use yield data with caution. A CV greater than 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 8% moisture content.

Vincennes, Indiana

Kenneth Eck Purdue University

Purdue University		95 - M. A. A.	MA MA
Planted:	9/20/2023 in 6-in. rows	75 - WWW WWW	HAM AN MILLAND
Seeding Rate Hybri	d: 300,000 seeds/a	55	
Desiccant:	6/3/2024 Reglone 1.5 pt/a	35 -	
Harvested:	6/11/2024		1 m d for will a contrary he
Herbicides:	12 oz/a Dual Magnum, 4 oz/a Command 3ME	15 -	' '
Insecticides:	None	-5	VV
Fungicide:	12 oz/a Quadris Top, 5.7 oz/a Proline 480C		
Previous crop:	Soybean	50 -	-
Soil test:	P= 21ppm, K= 91ppm, pH= 6.4	40 - 2 30 -	
Fertilizer:	Fall: 21-0-0-24 lb/a N-P-K-S		normal
	Spring: 159-0-0-24-1 lb/a N-P-K-S-B split application	- 30 -	arvest and a set of the set of th
Soil type:	Lomax loam Latitude: 38.742236	20 -	
Elevation:	430 ft. Longitude: -87.483865	10 -	23-24
Comments:	Comparable yields to previous	20 -	
	seasons. Maturities ran about one	0 1	
	week ahead of normal.	7/1 8/1 9/1	10/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1 6/1 7/1

Table 11. Results for the 2024 National Winter Canola Variet	ty Trial hybrid cultivare at Vinconnos IN
Table 11. Results for the 2024 National Winter Canola Variet	ty mai, myonu cultivars, at vincennes, in

				Yield (% of				Fall	50%	Plant		Test		
Name	Yi	ield (lb	/a)	test avg.)		(%)		stand	bloom	height	Moisture	weight	Protein	Oil
		2023	,	2024	2024	<u>`</u>	2-yr.	(plants/a)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Science														
DK SEQUEL		3202	2983	93				236,027	91	48	8.0	51.0		
DK SEVERNYI	2490	2829	2659	84				192,907	95	47	8.1	50.5		
DK SEPHOR	3010	3074	3042	102				224,679	94	48	7.9	50.8		
DK EXPOWER	2615	3073	2844	88				154,325	90	50	8.0	49.6		
DK EXSTORM	2871	3291	3081	97				211,062	93	50	8.2	50.4		
DK EXTERRIER	2888	3281	3084	98				249,644	92	53	8.9	49.5		
DK EXENTIEL	2926	3006	2966	99				249,644	93	51	8.0	50.3		
DK EXCEPTION	3255	3248	3252	110				249,644	92	51	8.1	50.0		
DK EXCLAIM	2650	3084	2867	90				238,296	95	50	8.4	49.9		
DK EXSTAR	2353	3237	2795	80				229,218	90	51	7.8	50.0		
DK EXTREMUS	3027			102				279,147	92	51	7.8	50.8		
DK EXSTEEL	3213			109				279,147	92	53	8.0	50.3		
DK EXPAT	3068			104				240,566	92	50	8.0	51.1		
DK EXLEVEL	2844			96				188,368	92	54	8.5	51.0		
DK EXCITY	2819			95				258,722	91	49	8.5	51.0		
DK EXOTTER	3191			108				229,218	91	51	8.2	50.2		
DK EXSUN	3020			102				260,991	91	53	8.0	50.5		
DK EXTRACT	3067			104				247,374	91	51	8.2	50.1		
DK EXIMA	3203			108				211,062	90	50	8.1	50.9		
DK EXPORTER	3113			105				254,183	90	52	8.2	50.9		
DK EXPACITO	2820			95				229,218	93	50	8.3	50.3		
Corteva Agriscience	;													
PT264	2770	3246	3008	94				233,757	97	53	7.5	50.5		
PT299	2870	3262	3066	97				260,991	89	49	7.9	49.7		
PT302	3352	3056	3204	113				233,757	91	52	7.8	50.8		
PT303	3255	3296	3276	110				242,835	97	52	7.6	50.3		
PT312	2865	3378	3122	97				233,757	94	51	7.7	50.5		
PT314	2781	3282	3031	94				229,218	90	52	7.8	50.2		
PT319	3266			110				238,296	91	53	7.7	50.8		
PT320	2805			95				256,452	96	53	8.2	49.8		
PT321	3110			105				242,835	90	53	8.0	49.6		
PT323	2352			79				260,991	92	51	8.4	51.1		
CROPLAN														
CP1055WC	2449	3425	2937	83				260,991	91	50	8.3	50.2		
CP1077WC	3179	2828	3003	107				270,069	92	53	7.9	50.3		

				Yield (% of	Wint	er sur	vival	Fall	50%	Plant		Test		
Name	Yi	eld (lb	/a)	test avg.)		(%)		stand	bloom	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(plants/a)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Photosyntech														
PST23YWT930	3228			109				224,679	95	53	8.2	50.0		
PST23BACL09	3056			103				236,027	91	54	7.7	50.1		
PST23EX37D	3034			103				236,027	90	52	8.3	50.0		
PST23YW1721	3117			105				192,907	95	53	8.1	49.3		
Rubisco Seeds														
Triathlon	3114			105				195,176	97	53	8.4	50.1		
Janosh	3189			108				231,488	91	52	7.9	51.6		
Drifter	3188			108				238,296	89	49	8.1	51.5		
Manhattan	3032			102				224,679	90	52	7.9	50.1		
Beatrix CL	3083			104				215,601	91	53	7.7	50.0		
Grand Mean	2960	3129						235,054	92	51	8.0	50.4		
CV	16	9						18	1	4	5.5	1.0		
LSD	ns	439						ns	2	2	ns	0.8		
P-value	0.717	0.044						0.398	<.0001	0.001	0.200	<.0001		

Ashland City, Tennessee

Tennessee Sta	te University			M
Seeding Rate H Desiccant: Harvested: Herbicides: Insecticides:	9/14/2023 in 6-in. rows DP: 500,000 seeds/a łybrid: 300,000 seeds/a None 5/30/2024 Cornerstorne Plus, Trust None			for the second s
Fungicide: Previous crop: Soil test: Fertilizer:	None Summer fallow N/A Fall: 26-0-0-30 lb N-P-K-S		(iu) 40 - transformed - 00 - 00 - 00 - 00 - 00 - 00 - 00 -	
Soil type: Elevation: Comments:	Spring: 74-0-40-0 lb N-P-K-S Silt loam N/A Greater yields in the hybrids tha pollinated varieties.	Latitude: 36.23 Longitude: -87.03 In the open-	normal normal 0 0 7/1 8/1 9/1 10/1 11/1 12/1 1/1 2/1 3/1 4/1 5/1 6/1	7/1

Table 12. Results for the 2024 National Winter Canola Variety	Trial at Ashland City TN
Table 12. Results for the 2024 National Winter Canola Variety	y marat Asmanu City, m

Jason de Koff

					Yield (% of	Wint	er sur	vival	Fall	50%	Plant	Test		
Name	Type ¹	Y	ield (lb/a)2	test avg.)		(%)		stand	bloom	height	weight	Protein	Oil
		2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in)	(lb/bu)	(%)	(%)
Bayer Crop Scie	ence													
DK SEQUEL	Н	670	1403	1036	42								20.7	38.2
DK SEVERNYI	н	2448	93	1270	153								21.1	38.8
DK SEPHOR	н	1554	1501	1527	97								21.7	38.1
DK EXPOWER	Н	1835	530	1182	114								20.3	41.3
DK EXSTORM	н	1901	634	1268	119								19.5	41.2
DK EXTERRIER	н	1690	1123	1407	105								21.8	37.1
DK EXENTIEL	н	1970	354	1162	123								21.5	39.2
DK EXCEPTION	н	1096	622	859	68								18.8	40.4
DK EXCLAIM	н	1514	436	975	94								19.6	40.4
DK EXSTAR	н	1385	773	1079	86								20.9	39.3
Corteva Agrisci	ence													
PT264	н	1735	479	1107	108								20.6	41.4
PT299	н	1888	263	1076	118								19.6	43.1
PT302	н	1833	348	1091	114								20.5	40.4
PT303	н	1996	288	1142	125								20.9	41.1
PT312	н	1418	262	840	88								21.2	40.5
PT314	н	1612	409	1010	101								19.5	43.0
PT319	н	1917			120								23.3	37.0
PT320	н	864			54								20.2	40.4
CROPLAN														
CP1022WC	OP	1120	506	813	70								23.2	37.4
CP1066WC	OP	1363	703	1033	85								22.2	38.1
CP1055WC	н	1644	100	872	103								20.2	40.3
CP1077WC	н	1559	535	1047	97								20.0	39.5
Kansas State U	niversit	y												
KS4662	OP	1124	503	814	70								22.8	38.7
KS4737	OP	787	763	775	49								24.1	37.2
KSUR1212	OP	964	322	643	60								21.3	39.6
Surefire	OP	1279	493	886	80								22.6	38.5
Wichita	OP	1024	796	910	64								22.2	39.1
Ohlde Seed Far	ms													
Torrington	OP	1241	813	1027	77								23.9	37.4

					Yield (% of	Win	er sur	vival	Fall	50%	Plant	Test		
Name	Type ¹	Y	ield (lb/a) ²	test avg.)		(%)		stand	bloom	height	weight	Protein	Oil
		2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in)	(lb/bu)	(%)	(%)
Photosyntech														
PST23YWT930	н	1970			123								20.4	40.0
PST23BACL09	н	1903			119								19.8	41.0
PST23EX37D	н	2090			130								20.2	40.6
PST23YW1721	н	2404			150								21.4	40.0
Rubisco Seeds	;													
Triathlon	н	1531			95								18.9	41.5
Janosh	н	1923			120								20.9	38.9
Drifter	н	2467			154								19.3	41.0
Manhattan	н	1912			119								21.2	38.3
Beatrix CL	н	1681			105								20.6	41.2
Mean		1603											21.0	39.7
CV		36											4.3	2.6
LSD		928											1.8	2.1
P-value		0.011											<.0001	<.0001

¹Type: H=hybrid, OP=open-pollinated

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

Springfield, Tennessee

Mitchell Richmond and Brad Fisher University of Tennessee

Planted:	9/18/2023 in 7-in. rows	
Seeding Rate OP:	500,000 seeds/a	
Seeding Rate Hybrid:	300,000 seeds/a	
Desiccant:	None	
Harvested:	5/30/2024	
Herbicides:	2 pt/a Poast	
Fungicide:	7 fl oz/a Quadris, 4.3 fl o	oz/a Proline
Previous crop:	Soybean	
Soil test:	P= 44 ppm, K= 116 ppm	n, S= 1 ppm, pH= 6.48
Fertilizer:	Fall: 40-0-0-23-1 lb/a N-	P-K-S-B
	Spring: 166-30-30-23-1. application	5 lb/a N-P-K-S-B split
Soil type:	Dickson silt loam	Latitude: 36.475142
Elevation:	706 ft.	Longitude: -86.822561
Comments:	Excellent yields and high this trial site.	n oil contents at

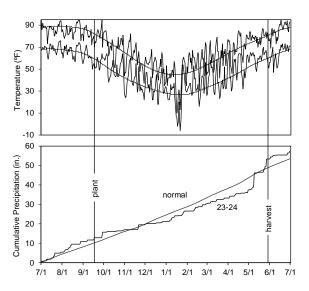


Table 13. Results for the 2024 National Winter Ca	nola Variety Trial, open-pollin	ated cultivars, at Springfield, TN
		a.e.a. e.a.e., a. e.p

				Yield (% of				Fall	50%	Plant			
Name	Y	ield (lb/a) ¹	test avg.)	Winte	er surviv	al (%)	stand	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(%)	(%)
CROPLAN													
CP1022WC	2001	1687	1844	79		100		8.7	88	52	15.4	20.7	42.0
CP1066WC	3021	2481	2751	119		100		9.0	85	52	8.6	20.3	41.2
Kansas State Univer	rsity												
KS4662	2714	2154	2434	107		98		7.3	84	52	7.7	20.1	42.4
KS4737	2557	2203	2380	101		100		8.3	84	52	10.5	20.0	43.4
KSUR1212	2592	2052	2322	102		100		8.3	84	52	7.4	21.1	41.4
Surefire	2596	1610	2103	102		100		7.7	85	52	7.3	20.0	42.0
Wichita	2710	2340	2525	107		100		8.7	84	51	6.6	21.1	41.3
Ohlde Seed Farms													
Torrington	2078	2004	2041	82		100		6.7	84	51	7.1	20.7	41.8
Grand Mean	2534	2066				100		8.1	85	52	8.8	20.5	41.9
CV	10	16				1		10.1	1	2	10.9	2.5	1.1
LSD	436	567				ns		1.4	1	ns	1.7	ns	1.0
P-value	0.003	0.089				0.476		0.047	<.0005	0.829	<.0001	0.273	0.021

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

¹Yields adjusted to 9% moisture content.

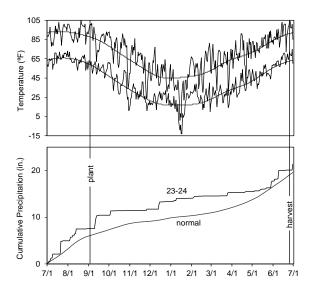
				Yield (% of				Fall	50%	Plant			
Name	Yi	ield (lb/a		test avg.)		r surviv	al (%)	stand	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(%)	(%)
Bayer Crop Science													
DK SEQUEL	3002	2993	2998	95		98		9.0	80	47	6.3	21.2	39.2
DK SEVERNYI	2976	2868	2922	95		100		8.7	84	48	6.9	20.1	41.5
DK SEPHOR	2999	3318	3159	95		100		9.0	85	47	9.2	20.2	41.2
DK EXPOWER	2665	2617	2641	85		100		7.0	79	50	5.2	19.5	43.0
DK EXSTORM	3322	2795	3059	106		98		9.0	82	55	8.0	19.2	42.8
DK EXTERRIER	2984	3076	3030	95		100		9.0	84	54	5.9	19.5	42.1
DK EXENTIEL	3476	2821	3149	110		92		9.0	78	53	5.2	19.2	42.4
DK EXCEPTION	3258	2941	3099	103		100		9.0	81	54	7.8	18.2	42.6
DK EXCLAIM	3302	2452	2877	105		100		9.0	84	56	9.4	18.5	43.4
DK EXSTAR	3068	2425	2746	97		98		7.7	82	51	6.8	19.2	42.5
DK EXTREMUS	3111			99				8.7	77	55	6.6	20.8	41.8
DK EXSTEEL	3273			104				9.0	81	57	7.0	18.7	43.5
DK EXPAT	2962			94				8.7	81	54	6.8	19.6	41.1
DK EXLEVEL	3721			118				8.7	77	58	5.2	19.3	42.3
DK EXCITY	3871			123				8.7	79	56	4.7	20.4	42.2
DK EXOTTER	3198			102				9.0	77	50	4.7 5.4	18.9	42.7
DK EXSUN	3442			102				9.0 9.0	80	56	5.4 6.0	18.3	42.8
DK EXTRACT	3184			109				9.0 8.3	80 84	50 54	6.4	18.3	42.0
	3508												
DK EXIMA				111				9.0	77	51	6.9	19.2	42.2
DK EXPORTER	3511			112				8.7	78	53	4.4	18.0	43.7
DK EXPACITO	2977			95				8.7	84	54	8.1	18.6	43.3
Corteva Agriscience	0444	0000	0007	400		400			05	50	7.0	00.0	40.7
PT264	3144	2929	3037	100		100		8.0	85	53	7.8	20.0	43.7
PT299	3140	2569	2854	100		98		9.0	77	52	8.1	17.9	45.6
PT302	3073	2755	2914	98		100		9.0	83	52	8.1	18.2	44.0
PT303	3273	2415	2844	104		97		8.7	85	53	7.8	19.3	44.8
PT312	2759	2029	2394	88		98		8.3	84	53	9.6	18.9	44.5
PT314	3525	2522	3024	112		97		8.3	77	56	5.4	18.1	45.3
PT319	2923			93				8.7	83	53	8.5	20.4	41.9
PT320	2631			84				8.7	86	54	9.6	19.9	42.7
PT321	3513			112				8.3	77	52	8.4	17.8	45.5
PT323	3087			98				8.7	78	54	11.6	18.4	44.4
CROPLAN													
CP1055WC	2841	2654	2748	90		98		8.3	80	51	7.0	19.0	42.9
CP1077WC	2624	2432	2528	83		93		8.7	84	52	9.2	18.9	42.4
Photosyntech													
PST23YWT930	2681			85				9.0	84	54	9.6	19.5	42.7
PST23BACL09	3180			101				8.7	81	55	5.5	19.0	43.1
PST23EX37D	3674			117				9.0	77	52	8.2	18.2	43.9
PST23YW1721	2716			86				8.3	85	58	16.1	18.8	43.6
Rubisco Seeds													
Triathlon	3186			101				7.3	87	56	8.5	18.9	42.8
Janosh	3108			99				8.3	78	54	10.3	19.0	43.5
Drifter	3256			103				8.7	77	47	8.3	18.9	43.6
Manhattan	3463			110				8.3	78	53	5.9	19.0	43.4
Beatrix CL	3017			96				8.7	83	53	7.2	19.1	44.9
Grand Mean	3148	2619				98		8.6	81	53	7.7	19.1	43.0
CV	14	16				4		6.6	2	4	22.5	6.0	3.0
LSD	474	670				ns		0.0	2	4	3.0	ns	2.6
	4/4	010				115		0.9	2	5	5.0	115	∠.0

¹Yields adjusted to 9% moisture content.

Garden City, Kansas

Johnathon Holman and Tom Roberts Kansas State University

0	9/5/2023 P: 500,000 seeds/a ybrid: 300,000 seeds/a						
Swathed:	N/A						
Harvested:	6/26/2024						
Herbicides:	3 pt/a Prowl						
Insecticides:	None	Latitude: 37.928725					
Fungicide:	None	Longitude: -98.024028					
Irrigation:	11 in.						
Soil test:	N/A						
Fertilizer:	Spring: 25-0-0 lb/a N-	P-K					
Soil type:	Ulysses Richfield silt	loam					
Elevation:	2835 ft.						
Comments:	Variable weather throughout the growing season resulted in yields slightly below average. Some entries excelled despite the conditions.						



				Yield (% of	Wint	er surv	ival	Fall	Fall	Spring	Plant		Test		
Name	Yie	eld (lb/a	l) ¹	test avg.)		(%)		stand	vigor	vigor	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(1-5)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1698	1071	1384	106	100	64	82	7.0	5.0	4.7	46	7.2	50.3	25.1	39.1
CP320WRR	1676	1112	1394	105	96	66	81	8.0	4.7	5.0	45	7.2	50.1	24.7	38.9
CP1022WC	1373	911	1142	86	100	39	69	6.0	4.0	4.0	48	7.2	50.0	25.4	38.4
CP1066WC	2434	1365	1900	152	100	93	96	7.3	5.0	5.0	52	8.4	50.2	24.5	38.8
Kansas State L	Jniversity	/													
KS4662	1828	976	1402	114	96	69	82	7.7	5.0	5.0	47	8.2	49.8	24.1	39.6
KS4737	1691	1485	1588	106	100	60	80	7.3	5.0	5.0	47	7.5	49.3	23.7	39.4
KSR4767	1335	1117	1226	83	100	84	92	6.7	4.7	5.0	46	6.9	49.7	25.3	38.3
KSR4839S	1074	820	947	67	100	44	72	6.7	4.7	5.0	46	7.0	50.1	23.2	40.5
KSR4848	1617	1222	1420	101	95	59	77	6.3	4.3	5.0	45	7.5	50.2	24.0	38.5
KSR4854S	1397	1173	1285	87	95	61	78	6.3	4.7	4.0	47	7.4	50.1	24.3	39.6
KSUR1212	1647	983	1315	103	100	58	79	6.3	4.7	5.0	46	7.2	50.8	23.7	39.1
Surefire	1645	1196	1420	103	90	72	81	7.0	4.3	4.7	46	7.3	50.8	25.8	39.1
Wichita	1867	1169	1518	117	96	61	78	8.3	5.0	5.0	45	7.1	50.0	24.9	38.7
Ohlde Seed Fa	rms														
Torrington	1809	1188	1499	113	100	82	91	7.3	5.0	5.0	48	7.3	49.9	23.2	39.6
Star Specialty	Seed														
Star 930W	949	947	948	59	100	65	82	3.7	3.3	4.0	42	7.3	49.0	25.7	37.6
Grand Mean	1603	1114			98	64		6.8	4.6	4.8	46	7.4	50.0	24.5	39.0
CV	15	28			6	23		15.4	7.6	4.5	3	6.9	1.4	2.8	1.6
LSD	393	430			ns	25		1.8	1	0.4	2	0.8	1.2	1.5	1.1
P-value	<.0001	0.085			0.776	0.011		0.004	<.0001	<.0001	<.0001	0.051	0.188	0.023	0.052

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

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

Table 16. Results for the 2024 National Winter Canola Variety Trial, hybrid cultivars, at Garden City, KS

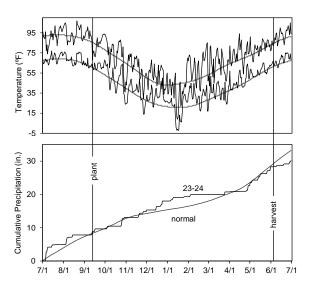
Table 16. Result		C 2024	Nation	Yield (% of		er surv		Fall	Fall	Spring	Plant	.0	Test		
Name	Yi	eld (lb/a	1) ¹	test avg.)		(%)	ivai	stand	vigor	vigor		Moisture		Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.		(1-5)	(1-5)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Scie				-	-			1 1	<u> </u>	<u> </u>		X - 7		(<i>1</i>	1.1
DK SEQUEL	3179	1844	2512	141	100	68	84	7.0	5.0	5.0	47	6.6	50.9	23.7	38.0
DK SEVERNYI	2705	1142	1924	120	100	45	72	6.7	4.7	4.7	43	6.5	50.5	22.0	39.6
DK SEPHOR	3381	1503	2442	150	95	58	76	7.3	4.7	4.7	43	6.8	51.3	24.0	39.2
DK EXPOWER	927			41	68	8	38	3.3	4.0	3.0	32	8.2	48.2	26.4	37.9
DK EXSTORM	2771	1352	2061	123	96	56	76	7.3	5.0	5.0	44	7.2	50.5	21.4	41.9
DK EXTERRIER	3000	1233	2117	134	100	55	77	6.7	4.7	5.0	48	7.0	50.4	21.1	41.0
DK EXENTIEL	2044	1322	1683	91	95	51	73	6.7	5.0	4.3	42	6.8	50.9	21.9	39.8
DK EXCEPTION		1573	2091	116	100	57	78	7.3	4.7	4.7	44	6.9	50.2	22.1	40.1
DK EXCLAIM	1344	737	1041	60	72	19	46	7.0	5.0	3.3	43	7.6	50.7	22.4	38.4
DK EXSTAR	2241	1104	1673	100	94	44	69	6.7	5.0	5.0	40	6.7	50.8	22.3	39.7
DK EXTREMUS	2084			93	95			6.7	4.7	4.7	44	7.3	50.4	22.8	40.5
DK EXSTEEL	2378			106	87			7.3	4.7	4.7	45	6.7	50.4	23.4	40.2
DK EXPAT	3118			139	96			7.7	4.7	5.0	46	7.3	51.8	22.8	38.9
DK EXLEVEL	2884			128	86			6.7	4.7	4.7	47	7.1	51.5	22.6	39.0
DK EXCITY	2761			123	87			7.3	5.0	4.3	42	7.2	51.0	23.7	39.6
DK EXOTTER	2352			105	100			5.3	4.0	4.0	43	7.0	50.1	22.7	39.5
DK EXSUN	2446			109	93			8.0	4.7	4.7	47	6.8	51.1	22.2	40.0
DK EXTRACT	2456			109	100			5.3	3.7	4.7	46	6.9	51.0	23.5	38.9
DK EXIMA	3051			136	100			8.0	5.0	5.0	46	7.1	51.0	23.5	40.0
DK EXPORTER	2735			122	95			6.3	5.0	4.7	44	7.0	50.6	22.1	39.5
DK EXPACITO	1715			76	89			4.0	3.3	3.0	40	8.4	49.1	24.5	39.9
Corteva Agriscie															
PT264	2365	1373	1869	105	100	47	74	7.3	5.0	5.0	50	7.5	50.9	24.1	40.1
PT299	1610	1281	1445	72	74	47	60	7.7	5.0	4.3	38	6.5	48.8	22.1	41.7
PT302	1399	1284	1341	62	53	41	47	8.3	5.0	3.0	39	7.6	48.4	22.9	41.0
PT303	2078	995	1536	92	79	31	55	8.0	5.0	4.0	44	7.2	50.8	22.6	41.5
PT312	2320	1330	1825	103	78	50	64	9.0	5.0	4.3	44	6.5	50.1	22.0	42.1
PT314	1523	564	1044	68	70	19	44	7.7	5.0	3.7	38	6.3	47.8	23.8	39.8
PT319	2165			96	96			8.3	5.0	4.3	44	6.6	50.3	24.1	38.7
PT320	1664			74	83			6.3	4.7	3.7	41	8.4	48.0	23.0	40.6
PT321	2222			99	80			8.0	5.0	4.3	43	7.5	48.7	23.1	41.3
PT323	1357			60	58			6.0	4.3	2.3	40	7.8	48.4	22.4	41.3
CROPLAN															
CP1055WC	2414	1131		107	90	45	68	7.3	5.0	4.3	44	7.0	50.7	24.0	38.4
CP1077WC	2424	1649		108	96	55	76	7.0	5.0	4.7	43	6.6	50.5	23.7	39.1
Photosyntech															
PST23BACL09	1494			66	83			5.3	5.0	3.3	42	6.7	49.4	24.9	38.9
PST23YW1112	1494			66	57			7.7	5.0	3.3	43	9.1	49.9	26.2	36.8
PST23BACL249	1408			63	63			5.7	4.0	3.0	40	7.5	50.4	26.6	38.1
PST23YW314	1684			75	74			7.7	5.0	4.3	41	6.6	50.2	22.9	39.6
Rubisco Seeds	-			-						-		-		-	-
Triathlon	3389			151	95			7.0	5.0	4.7	50	7.3	50.9	22.4	40.2
Janosh	2513			112	95			7.0	4.7	4.0	45	7.3	51.5	23.4	40.0
Drifter	2489			111	96			6.7	4.3	5.0	40	6.9	50.0	22.8	41.2
Manhattan	2923			130	100			7.0	4.7	5.0	46	6.9	50.9	23.2	40.1
Beatrix CL	1247			56	57			6.7	4.7	3.7	41	7.9	48.9	24.4	39.5
Grand Mean	2247	1212			86	42		6.9	4.7	4.2	43	7.2	50.2	23.2	39.8
CV	24	27			18	38		21.1	11.9	18.4	7	10.9	1.9	4.4	2.4
LSD	872	548			26	26		2.4	0.9	1.3	5	1.3	1.5	2.1	1.9
		<.0001			<.0005			0.020	0.049	<.0005		0.019		<.0005	
Pold: Superior L															

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

Hutchinson, Kansas

Jane Lingenfelser Kansas State University

Planted:	9/14/2023 in 10	-in. rows							
Seeding Rate OP:	500,000 seeds/	a							
Seeding Rate Hybrid:	300,000 seeds/	a							
Swathed:	5/28/2024								
Harvested:	6/5/2024								
Herbicides:	1 qt/a Treflan,1	0 oz/a Assure II							
Insecticides:	None	None							
Fungicide:	None								
Previous crop:	Wheat								
Soil test:	N/A								
Fertilizer:	Fall: 50-0-0 lb/a	N-P-K							
	Spring: 90-0-0 I	b/a N-P-K							
Soil type:	Ost loam	Latitude: 37.928725							
Elevation:	1540 ft.	Longitude: -98.024028							
Comments:	Minimal, yet timely rains resulted in excellent yields.								



				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant		Test		
Name	Yie	eld (lb/	/a)	test avg.)		(%)		stand	growth ¹	bloom	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1498			83				6.7	3.3	93	37	6.1		24.2	38.0
CP320WRR	1417			79				7.0	3.7	93	37	6.8		24.6	38.6
CP380WRR	2017			112				7.3	3.7	93	39	5.8		24.9	38.0
CP1022WC	1616			90				6.7	3.3	97	35	6.6		26.0	38.5
CP1066WC	2235			124				8.0	4.3	94	41	6.8		24.5	40.0
Kansas State Univer	sity														
KS4662	2135			118				7.0	3.0	94	41	5.8		23.2	39.4
KS4737	1860			103				7.0	3.3	93	39	5.8		22.9	40.5
KSR4767	1605			89				6.0	3.3	94	38	5.8		25.2	38.9
KSR4839S	1720			95				7.0	3.7	94	36	6.2		23.9	41.3
KSR4854S	1940			108				7.0	3.3	95	39	6.4		24.9	38.6
KSUR1212	1781			99				6.7	4.0	95	39	6.4		23.4	38.7
Surefire	1899			105				6.3	3.7	94	38	6.2		25.0	38.7
Wichita	1758			97				6.3	3.7	95	37	6.4		25.9	38.4
Ohlde Seed Farms															
Torrington	1800			100				7.3	3.3	94	37	6.0		25.7	39.0
Star Specialty Seed															
Star 930W	1759			98				5.0	3.3	94	39	7.1		24.4	38.4
Grand Mean	1803							6.8	3.5	94	38	6.3		24.6	39.0
CV	14							11.9	11.9	1	4	9.6		3.0	1.6
LSD (0.05)	413							1.3	0.7	1	2	ns		1.6	1.3
P-value	0.020							0.038	0.083	<.0001	<.0005	0.196		0.016	0.003

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.

¹Spring growth rated on a scale of 1 = poor to 5 = excellent.

Table To. Results to				Yield (% of		-		Fall	Spring	50%	Plant		Test		
Name	Yie	ld (lb/	/a)	test avg.)		(%)		stand	growth ¹			Moisture		Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer															
DK SEQUEL	2486			115				7.7	5.0	90	37	5.2		25.1	37.8
DK SEVERNYI	2428			112				7.3	3.3	94	35	5.3		24.6	39.4
DK SEPHOR	2719			125				7.3	4.7	94	39	5.1		25.0	40.5
DK EXPOWER	1859			86				5.7	3.7	91	37	5.0		24.7	39.6
DK EXSTORM	2323			107				6.7	2.3	94	35	5.2		23.4	40.9
DK EXTERRIER	2590			119				7.7	4.0	92	41	5.1		23.2	40.6
DK EXENTIEL	2353			108				7.7	2.7	92	39	5.1		24.1	40.8
DK EXCEPTION	2425			112				7.7	3.7	92	42	5.6		23.1	40.2
DK EXCLAIM	1462			67				7.3	1.0	95	36	5.6		24.8	39.8
DK EXSTAR	2284			105				6.7	3.0	91	37	5.6		22.9	40.9
DK EXTREMUS	1877			86				7.7	1.3	92	37	5.0		23.8	38.9
DK EXSTEEL	2267			104				8.0	2.0	93	41	4.9		23.4	40.5
DK EXPAT	2834			131				7.7	4.3	92	41	5.5		23.6	39.1
DK EXLEVEL	2422			112				7.0	2.7	90	41	5.8		24.4	40.4
DK EXCITY	2521			116				7.7	2.7	92	39	5.1		24.8	41.6
DK EXOTTER	2048			94				7.3	3.3	90	39	4.6		23.6	39.6
DK EXSUN	2522			116				7.7	3.7	92	39	4.8		23.3	40.5
DK EXTRACT	2229			103				7.3	3.3	91	40	4.9		24.1	38.3
DK EXIMA	2499			115				8.3	3.0	89	42	5.1		25.7	39.4
DK EXPORTER	2760			127				7.0	3.7	90	42	5.3		24.0	39.5
DK EXPACITO	2123			98				7.3	2.7	93	40	5.1		24.8	39.4
Corteva Agriscienc	e														
PT264	2257			104				7.3	4.3	96	41	4.7		23.8	40.2
PT299	2119			98				7.0	3.3	89	39	4.4		21.3	42.3
PT302	2034			94				6.7	2.3	93	37	4.8		23.2	42.2
PT303	1704			78				7.7	1.7	95	41	5.0		23.8	39.7
PT312	2180			100				7.0	2.0	94	39	4.8		22.2	42.1
PT314	2120			98				7.3	2.7	91	39	5.0		23.5	42.3
PT319	1883			87				6.7	2.3	93	36	5.3		25.4	39.2
PT320	2204			102				7.3	1.3	95	42	5.3		24.1	42.4
PT321	1569			72				7.3	1.0	90	37	5.8		23.5	41.0
PT323	1706			79				7.3	1.0	93	27	4.9		22.1	42.6
CROPLAN															
CP1055WC	2094			96				7.7	1.7	92	37	5.4		23.7	38.7
CP1077WC	2065			95				6.7	2.3	94	35	5.7		23.9	40.1
Photosyntech															
PST23BACL09	2159			99				7.3	2.3	90	41	5.0		25.1	39.6
PST23YW1112	2037			94				8.0	1.0	94	42	5.5		24.1	38.2
PST23BACL249	1559			72				7.3	1.3	96	35	4.9		25.9	37.8
PST23YW314	1775			82				7.7	1.0	93	37	5.2		23.1	39.3
Rubisco Seeds															
Triathlon	2120			98				6.0	3.3	97	39	6.2		24.7	38.8
Janosh	2161			100				8.0	2.0	94	39	4.9		24.8	38.8
Drifter	2456			113				8.0	3.0	90	37	4.5		22.9	41.5
Manhattan	2371			109				7.3	2.7	91	39	5.1		24.4	40.8
Beatrix CL	1574			73				6.7	1.3	93	38	5.5		25.7	39.9
Grand Mean	2171							7.3	2.6	92	38	5.2		24.0	40.1
CV	12							9.8	27.6	1	7	8.4		3.4	2.9
LSD (0.05)	419							1.2	1.2	2	4	0.7		1.7	2.4
P-value	<.0001							0.025	<.0001	<.0001	0.010	0.002		<.0005	0.004

¹Spring growth rated on a scale of 1 = poor to 5 = excellent.

Manhattan, Kansas

Michael Stamm Kansas State University

Kansas State Univer	sity	
Planted: Seeding Rate OP: Seeding Rate Hybrid Swathed: Harvested: Herbicides: Insecticides:	9/26/2023 in 10-in. rows 500,000 seeds/a I: 300,000 seeds/a 6/10/2024 6/14/2024 32 oz/a Treflan, 10 oz/a Assure II None	BO HO HO HO HO HO HO HO HO HO H
Fungicide: Previous crop: Soil test: Fertilizer:	None Wheat N/A Fall: 37-0-0-38 lb/a N-P-K-S Spring: 90-0-0 lb/a N-P-K	40 0 0 0 0 0 0 0 0 0 0 0 0 0
Soil type: Elevation: Comments:	Smolan silt loamLatitude: 39.1366691064 ft.Longitude: -96.641559A significant aster yellows infestationnegatively affected yields.	0 -

				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant	Aster			
Name	Yie	ld (lb/	′a) ¹	test avg.)		(%)		vigor ²	vigor	bloom	height	yellows ³	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(1-5)	(1-5)	(d)	(in.)	(1-9)	(%)	(%)	(%)
CROPLAN															
CP225WRR	1037			91				2.5		101	43	2.5	6.8	20.1	39.9
CP320WRR	1583			139				3.5		97	40	3.0	6.5	20.0	39.2
CP1022WC	1544			136				2.5		105	49	4.0	7.7	22.6	37.2
CP1066WC	1869			164				3.0		102	46	4.0	7.5	19.9	40.9
Kansas State Univer	sity														
KS4662	568			50				2.8		100	43	8.0	6.5	20.2	40.6
KS4737	1483			130				3.5		99	47	5.0	7.0	20.1	41.3
KSR4767	956			84				3.5		99	42	5.0	6.9	21.7	38.3
KSR4839S	867			76				3.3		100	43	3.5	7.8	19.6	40.0
KSR4848	980			86				3.0		102	41	6.0	7.1	21.3	38.8
KSR4854S	1135			100				2.8		101	46	5.5	7.0	20.2	40.4
KSUR1212	969			85				3.3		100	43	4.0	7.8	20.7	39.9
Surefire	680			60				2.5		102	40	6.0	7.0	22.6	37.6
Wichita	1348			119				4.0		100	44	5.5	7.1	21.3	38.7
Ohlde Seed Farms															
Torrington	980			86				3.3		101	46	6.0	8.5	20.9	39.6
Star Specialty Seed															
Star 930W	1056			93				2.5		101	42	3.0	9.3	21.7	37.3
Grand Mean	1137							3.1		100	44	4.7	7.4	20.9	39.3
CV	39							15.3		2	4	49.6	15	5.7	6.0
LSD (0.05)	ns							ns		ns	4	ns	ns	ns	ns
P-value	0.309							0.106		0.051	0.008	0.658	0.558	0.310	0.811

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

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

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

³Aster yellows rated on a scale of 1=low infestation to 9=extreme infestation.

Table 20. Results for the 2024 National Winter Canola Variety Trial, hybrid cultivars, at Manhattan, KS

Tuble 20. Results to				Yield (% of					Spring	50%	Plant	Aster			
Name	Yie	ld (lb/	(a) ¹	test avg.)		(%)	mai	vigor ²	vigor	bloom		yellows ³	Moisture	Protein	Oil
,	2024			2024	2024	2023	2-yr.	(1-5)	(1-5)	(d)	(in.)	(1-9)	(%)	(%)	(%)
Bayer Crop Science	•														
DK SEQUEL	2766			129				4.0	4.3	95	44	4.0	7.0	18.9	42.0
DK SEVERNYI	1760			82				3.3	3.5	102	39	5.0	6.9	19.0	42.3
DK SEPHOR	2459			115				3.8	4.2	99	42	3.5	7.0	18.5	42.9
DK EXPOWER	782			37				2.3	2.5	99	35	2.0	6.9	19.1	41.6
DK EXSTORM	1250			58				3.0	4.0	100	39	5.0	7.3	17.6	43.1
DK EXTERRIER	2487			116				3.5	4.0	98	47	4.0	7.2	17.3	44.4
DK EXENTIEL	2045			96				3.8	4.3	99	39	4.0	7.1	18.7	42.4
DK EXCEPTION	2104			98				3.8	4.5	97	42	5.0	7.3	17.3	43.1
DK EXCLAIM	2069			97				3.7	4.3	101	41	5.5	7.0	19.1	42.4
DK EXSTAR	2158			101				3.3	3.8	97	44	6.0	7.0	18.5	43.5
DK EXTREMUS	2374			111				3.8	5.0	96	43	5.5	7.0	18.7	41.7
DK EXSTEEL	1769			83				3.0	3.5	100	44	7.5	7.3	18.6	43.3
DK EXPAT	3143			147				3.3	4.5	99	47	3.5	7.0	18.1	43.6
DK EXLEVEL	1784			83				3.0	3.5	99	41	7.5	7.3	18.5	42.7
DK EXCITY	2156			101				4.0	3.8	95	44	5.0	6.9	19.9	42.2
DK EXOTTER	2640			123				3.5	4.0	96	48	5.5	6.9	18.9	42.1
DK EXSUN	2546			119				3.8	4.0	98	47	4.5	7.1	18.6	41.7
DK EXTRACT	2293			107				3.0	3.3	98	41	4.0	7.0	18.2	43.3
DK EXIMA	2370			111				3.5	4.3	95	43	4.0	6.8	17.6	43.5
DK EXPORTER	2030			95				3.8	4.3	98	43	4.0	7.0	18.1	41.0
DK EXPACITO	1986			93				3.5	3.8	100	41	4.0	7.1	18.1	44.4
Corteva Agriscience				00				0.0	0.0	100		1.0		10.1	
PT264	2668			125				3.3	3.5	103	45	4.0	6.9	17.5	45.4
PT299	1562			73				2.8	3.0	95	36	4.5	6.9	18.3	45.2
PT302	1226			57				2.3	3.3	100	41	2.5	7.1	18.8	43.0
PT303	2794			131				3.8	4.2	103	44	6.0	7.3	18.1	44.9
PT312	2415			113				3.3	3.8	100	42	3.0	6.9	18.1	45.3
PT314	2246			105				3.5	3.8	98	43	4.5	7.0	18.0	45.4
PT319	1372			64				3.0	3.3	100	47	7.5	7.3	21.9	38.8
PT320	2590			121				3.5	4.0	102	46	4.0	7.3	20.2	40.8
PT321	1623			76				3.3	3.8	99	44	4.5	7.7	19.7	41.5
PT323	2805			131				3.5	3.8	99	40	4.5	6.9	16.4	47.6
CROPLAN	2000			101				0.0	0.0	00	10	1.0	0.0	10.1	
CP1055WC	2344			109				3.5	4.3	98	42	3.0	7.0	18.3	43.9
CP1077WC	1965			92				3.0	3.3	99	38	2.5	7.7	18.3	43.6
Photosyntech	1000			02				0.0	0.0	00	00	2.0		10.0	10.0
PST23BACL09	2450			114				3.0	3.5	98	46	3.5	7.1	19.0	42.3
PST23YW1112	3274			153				3.8	4.4	100	47	2.5	7.2	20.2	40.7
PST23BACL249	2335			109				3.3	4.0	101	44	4.0	6.7	18.3	42.0
PST23YW314	2280			107				3.0	3.3	101	43	4.0	6.9	20.0	41.0
Rubisco Seeds								0.0	0.0				0.0	20.0	
Triathlon	1869			87				3.8	4.0	103	51	6.5	7.4	18.3	42.8
Janosh	1544			72				2.8	3.8	101	47	8.0	7.0	20.5	39.2
Drifter	2733			128				4.0	4.5	93	45	4.0	6.6	18.3	40.9
Manhattan	1740			81				2.5	3.8	98	41	6.5	7.6	18.6	42.8
Beatrix CL	1098			51				2.5	3.0	101	42	6.0	7.5	20.3	43.0
Grand Mean	2141							3.3	3.8	99	43	4.6	7.1	18.7	42.7
CV	33							14.1	14.1	1	7	36.0	4.4	5.8	4.2
LSD (0.05)	ns							0.9	0.9	3	6	2.8	ns	1.8	3.1
P-value	0.261							0.021	0.052	<.0001	0.002	0.096	0.289	0.063	0.071
Bold: Superior LSD		Inless	two e	ntries differ h	w mor	o than	tho I								

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

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

³Aster yellows rated on a scale of 1=low infestation to 9=extreme infestation.

Norwich, Kansas

Cody Swinehart and David Swinehart

Planted: Seeding Rate OP: Seeding Rate Hybrid Swathed: Harvested: Herbicides: Insecticides:	9/21/2023 in 10-in. rows 500,000 seeds/a : 300,000 seeds/a N/A 6/5/2024 10 oz/a Assure II N/A	95 15 15 15 15 15 15 15 15 15 1
Fungicide:	N/A	î m
Previous crop: Soil test:	Wheat	iii 30 - iiiiiiiiiiiiiiiiiiiiiiiiiiiiiii
Fertilizer:	N/A Fall: 6-16-0 lb N-P-K	
rennizer.	Spring: 100-0-0-10 lb N-P-K-S	
Soil type:	Renfrow clay loam Lattitude: 37.415207	Cumulative Precipitation (iii)
Elevation:	1496 ft. Longitude: -97.849154	
Comments:	Drought stress resulted in small	
	plants and limited yield.	0 1/2

				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant		Test		
Name	Yie	eld (lb/	'a) ¹	test avg.)		(%)		stand	stand ²	bloom	height	Moisture	weight	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-9)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1101			100					6.7		38	11.3		23.8	40.7
CP320WRR	912			83					4.7		36	11.2		22.8	41.0
CP1022WC	1309			119					6.5		41	13.7		22.8	41.8
CP1066WC	1494			136					7.7		39	12.1		21.0	43.0
Kansas State Univer	sity														
KS4662	960			87					4.7		41	12.9		21.8	42.4
KS4737	989			90					5.3		40	12.1		22.1	42.8
KSR4767	1066			97					6.7		41	11.4		22.8	41.4
KSR4839S	982			89					5.3		39	11.8		22.1	42.7
KSR4848	1069			97					6.7		38	12.6		21.9	41.7
KSR4854S	1346			122					6.3		40	12.0		24.0	41.0
KSUR1212	1362			124					7.3		39	10.9		22.6	42.5
Surefire	1176			107					4.7		38	11.0		24.3	40.5
Wichita	577			52					5.7		34	11.9		23.4	41.2
Ohlde Seed Farms															
Torrington	1025			93					4.3		39	11.2		21.8	42.6
Star Specialty Seed															
Star 930W	1142			104					5.0		38	11.5		22.8	41.5
Grand Mean	1101								5.8		39	11.8		22.7	41.8
CV	32								20.8		5	11.4		4.9	1.7
LSD (0.05)	ns								2.0		ns	ns		ns	1.5
P-value	0.302								0.028		0.157	0.500		0.274	0.044

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

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

²Spring stand rated on a scale from 1=poor to 9=excellent.

Table 22. Results f				Yield (% of		-		Fall	Spring	50%	Plant		Test		
Name	Yie	ld (lb	/a) ¹	test avg.)	vviiit	(%)	vivai	stand				Moisture		Protein	Oil
	2024			2024	2024	· ·	2-yr.		(1-9)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Scienc								· · · ·	· /		· · /	<i>i</i>	· · ·	<i>i</i>	
DK SEQUEL	1264			110					7.7		34	9.2		22.1	41.2
DK SEVERNYI	1379			120					6.3		34	8.7		19.5	44.5
DK SEPHOR	537			47					5.0		31	12.1		19.8	43.8
DK EXPOWER	378			33					3.0		31	7.7		18.5	44.7
DK EXSTORM	1412			122					7.3		38	10.3		22.3	42.1
DK EXTERRIER	1181			102					7.0		38	10.9		18.9	44.5
DK EXENTIEL	1220			106					7.3		37	9.5		21.2	43.3
DK EXCEPTION	1307			113					7.3		35	9.4		19.5	43.9
DK EXCLAIM	1223			106					7.0		35	11.4		20.6	44.4
DK EXSTAR	1200			104					6.0		34	10.5		23.5	41.0
DK EXTREMUS	1288			112					7.0		36	10.7		21.2	43.4
DK EXSTEEL	677			59					6.7		37	8.2		19.6	44.8
DK EXPAT	1722			149					8.0		39	9.8		20.8	42.3
DK EXLEVEL	1322			115					6.7		40	11.6		20.9	43.3
DK EXCITY	1565			136					7.0		39	8.7		21.7	42.8
DK EXOTTER	1179			102					7.0		38	9.9		21.0	43.2
DK EXSUN	1305			113					8.3		36	9.0		18.5	44.5
DK EXTRACT	1136			99					7.0		38	8.8		20.7	41.9
DK EXIMA	1666			144					8.7		38	8.6		21.5	41.8
DK EXPORTER	894			78					6.0		36	9.1		19.7	42.9
DK EXPACITO	1069			93					8.0		38	9.0		19.0	45.3
Corteva Agriscienc															
PT264	1261			109					7.0		38	10.9		22.6	43.7
PT299	1112			96					7.0		32	8.8		21.4	44.0
PT302	1343			117					7.7		36	12.2		19.3	46.9
PT303	1712			149					7.7		42	10.6		20.7	44.2
PT312	1514			131					8.0		42	12.1		21.0	45.1
PT314	1070			93					7.3		36	10.0		17.5	48.1
PT319	877			76					7.0		36	12.0		21.8	42.6
PT320	893			77					6.3		38	12.7		22.0	43.7
PT321	1428			124					7.3		38	10.9		20.7	45.3
PT323	735			64					6.3		35	10.7		19.8	45.1
CROPLAN															
CP1055WC	1198			104					7.7		34	9.7		19.8	43.2
CP1077WC	1105			96					7.7		34	9.8		21.8	42.1
Photosyntech															
PST23BACL09	826			72					6.0		39	9.5		19.8	43.6
PST23YW1112	1180			102					6.0		35	13.1		22.3	40.2
PST23BACL249	912			79					5.7		37	13.4		23.0	41.4
PST23YW314	522			45					5.0		32	12.8		19.3	44.4
Rubisco Seeds															
Triathlon	1193			103					6.3		42	10.3		20.4	41.5
Janosh	1542			134					8.0		36	14.0		21.2	43.5
Drifter	826			72					6.3		33	11.2		20.5	44.5
Manhattan	969			84					7.0		38	10.2		20.6	44.0
Beatrix CL	928			80					5.3		35	11.5		22.7	43.0
Grand Mean	1153								6.8		36	10.4		20.7	43.6
CV	25								13.5		7	16.9		6.3	2.8
LSD (0.05)	476								1.5		5	2.9		2.7	2.5
P-value	<.0001								<.0001		0.006	0.002		0.011	<.0005
Bold: Superior LSD				tale a differentes		de a se d		D Puls							

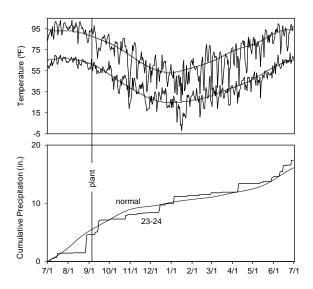
¹Use yield data with caution. A CV greater than 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 9% moisture content.

²Spring stand rated on a scale from 1=poor to 9=excellent.

Clovis, New Mexico

Sangu Angadi and Guru Yadahalli New Mexico State University

Planted:	9/6/2023 in 6-in. row	S
Seeding Rate OP:	500,000 seeds/a	
Seeding Rate Hybrid:	: 300,000 seeds/a	
Desiccant:	5/31/2024 Gramoxor	ne 2.7 pt/a
Harvested:		
Herbicides:	1.5 pt/a Treflan HFP	
Insecticides:	25 oz/a Sivanto, 22.5	5 oz/a Vantacor, 4 oz/a
	Avaunt, Mustang Ma	xx 4 oz/a
Irrigation:	5.70 in.	
Soil test:	N=7.2 ppm, P=7.0 p	om, K=385 ppm, pH=8.0
Previous crop:	Wheat	
Fertilizer:	155-60-0-43 lb/a N-F	P-K-S
Soil type:	Olton clay loam	Latitude: 34.599850
Elevation:	4437 ft.	Longitude: -103.220032
Comments:	Yields were slightly this High Plains site.	below average at



				Yield (% of	Winte	er surv	/ival	Fall	Fall	50%	Plant			
Name	Yie	eld (lb/a	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)
CROPLAN														
CP225WRR	1251			98	75			6.3	3.3	100	34	9.0	27.3	35.8
CP320WRR	970			76	87			6.7	3.7	99	34	11.1	29.4	34.7
CP1022WC	1331			104	88			6.0	3.0	106	39	12.3	27.0	35.3
CP1066WC	1501			118	88			8.0	3.7	101	39	9.0	27.0	36.2
Kansas State Univer	sity													
KS4662	1353			106	82			5.3	3.3	98	40	8.2	26.9	35.9
KS4737	1586			124	72			5.7	3.3	99	37	10.3	26.4	37.3
KSR4767	1262			99	73			5.3	3.3	97	40	8.8	27.9	34.9
KSR4839S	1056			83	75			5.7	3.0	100	38	8.4	28.1	36.2
KSR4848	1253			98	80			7.7	3.7	100	36	11.3	27.8	35.2
KSR4854S	1344			105	78			5.7	3.3	100	38	8.3	28.2	34.7
KSUR1212	1196			94	73			5.0	3.0	98	38	7.9	28.0	34.8
Surefire	1178			92	87			7.3	3.3	100	37	7.7	29.0	35.2
Wichita	1214			95	70			6.7	3.3	99	37	9.1	30.5	33.4
Ohlde Seed Farms														
Torrington	1519			119	80			4.0	3.3	94	35	7.9	26.9	36.4
Star Specialty Seed														
Star 930W	1133			89	75			6.3	3.3	98	35	7.7	27.1	36.1
Grand Mean	1276				79			6.1	3.3	99	37	9.1	27.8	35.5
CV	22				11			29.0	15.6	1	7	10.3	5.5	4.1
LSD (0.05)	ns				ns			ns	ns	2	ns	1.6	ns	ns
P-value	0.422				0.135			0.420	0.897	<.0001	0.072	<.0001	0.459	0.613

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

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

Table 24. Results for the 2024 National Winter Canola Variety Trial, hybrid cultivars, at Clovis, NM

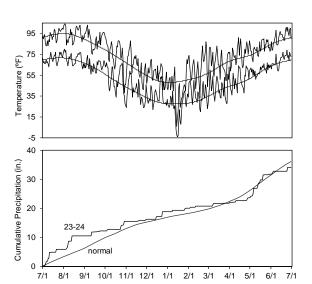
				Yield (% of	Winte	er sur	vival	Fall	Fall	50%	Plant			
Name	Yi	eld (lb/a	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	Protein	Oil
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)
Bayer Crop Science)													
DK SEQUEL	2369			122	87			7.0	3.7	91	32	10.4	24.1	37.4
DK SEVERNYI	1850			96	82			7.7	3.3	100	32	9.2	26.6	36.6
DK SEPHOR	2180			113	77			7.0	3.0	97	34	8.5	25.9	36.5
DK EXPOWER	2089			108	80			6.0	3.3	92	37	9.3	23.0	39.7
DK EXSTORM	1888			98	85			8.0	3.3	96	35	9.7	23.6	39.6
DK EXTERRIER	1831			95	88			8.7	3.7	97	38	10.2	24.1	39.2
DK EXENTIEL	2033			105	85			7.7	3.7	92	38	10.5	22.8	39.0
DK EXCEPTION	2146			111	85			8.0	3.3	95	36	11.8	22.4	39.5
DK EXCLAIM	1834			95	85			8.0	3.7	102	39	11.7	21.8	40.4
DK EXSTAR	1714			89	83			6.3	3.0	98	37	9.9	26.4	35.9
DK Extremus	1904			98	90			8.0	3.3	94	35	10.1	26.6	36.7
DK EXSTEEL	1685			87	83			8.7	3.3	100	38	9.7	26.4	36.5
DK EXPAT	2088			108	88			8.3	3.3	98	36	9.9	26.1	36.5
DK EXLEVEL	2542			131	90			7.0	3.3	93	36	9.0	23.7	38.1
DK EXCITY	1829			95	88			9.3	3.7	94	39	9.9	27.8	35.9
DK EXOTTER	1994			103	83			8.7	4.0	94	37	10.6	24.0	38.4
DK EXSUN	2008			104	87			9.3	4.0	96	38	10.3	23.8	38.6
DK EXTRACT	2349			121	83			7.3	3.3	95	38	10.7	24.3	37.6
DK EXIMA	2713			140	87			8.3	3.7	96	37	9.8	24.1	38.6
DK EXPORTER	2444			126	92			7.7	4.0	90	34	10.4	21.3	40.2
DK EXPACITO	1915			99	82			8.7	4.0	98	36	10.7	23.9	38.2
Corteva Agriscience					-			-	-			-		
PT264	1522			79	82			7.0	4.0	101	39	9.2	26.9	36.8
PT299	1380			71	83			7.0	3.0	94	35	11.4	24.0	40.4
PT302	1526			79	85			8.0	3.7	99	34	10.2	25.1	39.2
PT303	2067			107	85			8.7	4.0	97	38	9.5	23.7	39.8
PT312	1791			93	75			7.3	3.7	100	38	10.8	23.0	40.6
PT314	2160			112	90			8.7	3.7	93	38	9.2	22.3	41.6
PT319	1561			81	83			8.7	3.7	101	33	10.1	27.3	35.0
PT320	1708			88	85			8.7	3.7	100	39	9.6	23.0	40.3
PT321	1716			89	92			8.7	3.0	94	34	9.2	24.0	40.6
PT323	1743			90	82			8.3	6.0	96	37	10.0	20.5	43.0
CROPLAN				00				0.0	0.0		0.		2010	
CP1055WC	2119			110	88			8.7	3.0	93	37	10.1	23.3	38.4
CP1077WC	1619			84	87			9.0	3.7	98	36	11.1	23.6	39.2
Rubisco Seeds	1010			0.	01			0.0	0.7		00		20.0	00.2
Triathlon	1788			92	87			8.7	4.0	100	42	11.7	22.1	40.5
Janosh	1640			85	87			7.7	3.3	100	32	11.2	25.2	37.7
Drifter	2032			105	83			7.0	3.3	92	33	11.2	22.9	40.5
Manhattan	1956			103	88			7.0	3.0	92 97	37	11.4	22.5	40.3
Beatrix CL	1950			92	00 77			7.0	3.0 3.7	97 92	39	9.3	27.2	36.6
Grand Mean	1934			92	85			7.9	3.6	92	39	9.3	24.2	38.7
CV	1934	_			60 5			7.9 10.6	3.6 20.5	96 3	36 9	10.2	24.2 6.8	36.7 4.2
LSD (0.05)	586				с 5 8			1.4		3 4			6.8 3.4	4.2 3.3
P-value	0.006				8 0.004			1.4 <.0001	ns 0.075	4 <.0001	ns 0.093	ns 0.056		3.3 0.003
P-value													0.005	

¹Yields adjusted to 9% moisture content.

Josh Lofton Oklahoma State University

Seeding Rate Hybrid: 300,000 seeds/a

Seeding Rate OP:



Comments:

Yields were above average despite a challenging year. Open-pollinated cultivars outyielded the hybrids.

500,000 seeds/a

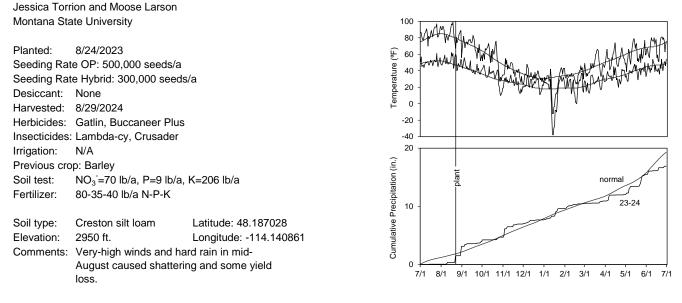
Table 25. Results for the 2024 National Winter Canola Variety Trial, open-pollinated cultivars, at Perkins, OK	

				Yield (% of	Wint	er sur	vival	Fall	50%	Plant		Test		
Name	Yield (lb/a)			test avg.)	(%)		stand	bloom	height	height Moisture		Protein	Oil	
	2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN														
CP225WRR	2378			103									23.0	35.9
CP320WRR	2105			91									21.9	36.7
CP1022WC	2480			107									23.6	36.6
CP1066WC	2297			100									22.3	38.0
Kansas State Unive	rsity													
KS4662	2580			112									20.1	39.7
KS4737	2225			96									21.0	39.8
KSR4767	2405			104									20.6	38.6
KSR4839S	2020			88									21.0	39.1
KSR4848	2475			107									21.2	38.9
KSR4854S	2080			90									22.4	37.1
KSUR1212	2242			97									20.6	38.8
Surefire	2418			105									23.5	36.4
Wichita	2512			109									20.5	37.1
Ohlde Seed Farms														
Torrington	2057			89									22.7	36.8
Star Specialty Seed														
Star 930W	2338			101									21.9	36.6
Grand Mean	2307												21.8	37.7
CV	12												5.2	3.0
LSD (0.05)	ns												ns	2.4
P-value	0.296												0.100	0.034

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

Table 26. Results for	110 202	Hun		Yield (% of		-	-	Fall	50%	Plant	,	Test		
Name	Yie	eld (lb/a	a)	test avg.)		(%)	mai	stand	bloom		Moisture	weight	Protein	Oil
	2024	2023		2024	2024		2-yr.	(0-10)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Bayer Crop Science												· · ·		
DK SEQUEL	2398			111									17.6	39.0
DK SEVERNYI	2090			97									18.3	39.3
DK SEPHOR	2282			105									18.2	39.2
DK EXPOWER	2238			103									18.6	39.9
DK EXSTORM	2363			109									18.4	43.4
DK EXTERRIER	2107			97									17.6	42.9
DK EXENTIEL	2003			93									19.0	42.7
DK EXCEPTION	2235			103									18.4	38.8
DK EXCLAIM	2152			99									19.1	40.3
DK EXSTAR	2212			102									18.3	42.6
DK EXTREMUS	1920			89									19.0	40.1
DK EXSTEEL	2138			99									18.5	39.9
DK EXPAT	2162			100									17.6	37.6
DK EXLEVEL	2082			96									19.6	38.2
DK EXCITY	2147			99									18.3	41.5
DK EXOTTER	2150			99									18.4	39.5
DK EXSUN	2438			113									19.1	38.7
DK EXTRACT	1915			88									18.3	38.3
DK EXIMA	2055			95									18.1	39.4
DK EXPORTER	2000			99									18.4	40.8
DK EXPACITO	2243			104									19.1	40.9
Corteva Agriscience				104									10.1	+0.5
PT264	2285			106									18.4	42.6
PT299	2270			105									17.3	42.5
PT302	2345			108									18.3	42.6
PT303	2077			96									19.0	41.9
PT312	2078			96									18.4	43.3
PT314	2125			98									15.4	43.4
PT319	2175			100									22.8	36.9
PT320	2282			105									18.8	43.4
PT321	2233			103									18.5	44.3
PT323	2300			105									17.0	43.4
CROPLAN	2000			100									17.0	-10.7
CP1055WC	1957			90									11.6	31.2
CP1077WC	2220			103									19.2	41.2
Photosyntech	2220			105									19.2	41.2
PST23BACL09	2107			97									19.2	41.9
PST23BACL09 PST23YW1112	2107			97 98									20.6	41.9 37.4
PST23BACL249	2130			98 99									20.6	37.4 39.1
PST23YW314	1957			90									18.3	42.3
Rubisco Seeds	1957			90									10.5	42.5
Triathlon	2052			95	-								18.7	40.0
Janosh	2052			95 111									19.3	40.0 39.1
Drifter	2403			97									19.3	39.1 41.4
Manhattan	2090 2133			97 99										41.4 42.7
													18.7	
Beatrix CL Grand Mean	2115			98									19.0	40.9
Grand Mean	2166												18.5 5 5	40.7
	13												5.5	3.9
LSD (0.05) P-value	ns												2.1	3.2
P-value	0.954												<.0001	<.0001

Creston, Montana



					Yield (% of					50%		Plant		
Name	Type ¹	Yie	eld (lb/a)	2	test avg.)	Winte	r surviv	al (%)	Fall stand	bloom	Shatter	height	Protein	Oil
		2024	2023	2-yr.	2024	2024	2023	2-yr.	(1-m row)	(d)	(%)	(in.)	(%)	(%)
Bayer Crop	Scienc	e												
TFW107D	Н	1451			152	54			14	139	13	35	18.8	44.4
TFW115D	н	1646			172	73			14	139	22	34	19.5	43.4
TFW116D	Н	1690			177	51			18	139	10	38	19.5	44.9
CROPLAN														
CP225WRR	OP	762	299	530	80	71	9	40	15	140	40	35	20.8	43.2
CP320WRR	OP	1057	621	839	111	42	26	34	22	140	22	35	20.7	43.6
Kansas Stat	e Univ	ersity												
KSR4767	OP	996	316	656	104	65	29	47	16	141	23	36	21.5	42.7
KSR4837	OP	812	666	739	85	73	25	49	16	141	27	38	21.0	43.2
KSR4839S	OP	843	698	771	88	50	22	36	20	141	43	37	20.5	44.6
KSR4846	OP	922			97	63			19	139	30	38	20.4	44.3
KSR4848	OP	748	431	590	78	66	33	49	14	140	27	38	21.5	42.9
KSR4850	OP	890			93	80			13	140	35	35	20.3	42.4
KSR4852S	OP	988	984	986	103	71	30	51	18	140	27	37	19.7	45.9
KSR4854S	OP	734	561	648	77	57	14	35	19	140	33	36	21.3	44.0
KSR4925	OP	718	899	809	75	61	33	47	21	143	32	37	21.4	43.1
KSR4926S	OP	993	567	780	104	58	23	41	17	140	22	36	21.6	43.2
KSR4927S	OP	825	655	740	86	73	21	47	17	140	28	36	20.6	43.4
KSR4928	OP	822	687	755	86	39	24	31	21	143	40	36	21.5	42.1
KSR4966S	OP	691	652	672	72	81	20	51	15	141	33	37	20.8	43.2
KSR4967	OP	678	241	460	71	55	16	36	18	141	50	37	20.4	43.6
Star Special	ty See	d												
Star 930W	OP	843			88	63			14	142	38	35	21.6	42.9
Mean		956	569			62	23		17	140	30	36	20.7	43.5
CV		18	49			38	61		21	1	36	5	4.2	2.5
LSD		280	382			ns	ns		ns	2.2	18	ns	ns	ns
P-value		<.0001	0.090			0.765	0.142		0.100	0.003	0.007	0.143	0.118	0.229

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.

¹Type: H=hybrid, OP=open-pollinated

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

Alburgh, Vermont

Heather Darby University of Vermont

0	8/28/2023 in 6-in. rows P: 500,000 seeds/a ybrid: 300,000 seeds/a	
Desiccant:	None	
Harvested:	7/19/2024	
Herbicides:	None	
Insecticides:	None	
Fungicide:	None	
Previous crop:	Winter rye	
Soil test:	N/A	
Fertilizer:	Fall: 60-60-60 lb/a N-P-K	
Soil type:	Benson rocky silt loam	Latitude: 45.008280
Elevation:	125 ft.	Longitude: -73.307385
Comments:	Exceptional yields and very contents in a year with abo precipitation.	, 0

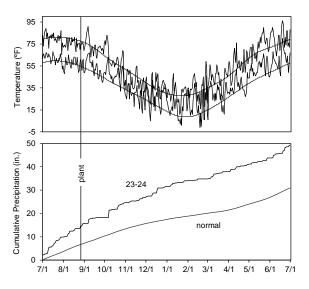


Table 28. Results for the 2024 National Winter Canola Variety Trial at Alburgh, VT

					Yield (% of	Winte	er surv	ival	Fall	Fall	50%	Plant			
Name	Type ¹	Yie	eld (lb/a	a) ²	test avg.)		(%)		stand	vigor	bloom	height	Moisture	Protein	Oil
		2024	2023	2-yr.	2024	2024	2023	2-yr.	(0-10)	(1-5)	(d)	(in)	(%)	(%)	(%)
Bayer Crop Sci	ence														
DK EXOTTER	н	2787			106	83			10.0	4.5	130	60	8.5	16.0	46.8
DK EXSUN	н	2606			99	80			9.8	4.8	132	61	8.1	16.3	45.4
DK EXIMA	н	3014			114	98			9.5	4.5	129	59	8.7	15.1	46.9
DK EXPACITO	Н	3450			131	83			10.0	5.0	134	66	8.6	17.3	45.9
Corteva Agrisc	ience														
PT319	Н	2666			101	83			9.5	4.8	131	61	9.0	18.2	45.1
PT320	Н	2005			76	30			9.5	5.0	135	55	10.2	16.2	47.6
PT321	н	2180			83	38			10.0	5.0	131	53	11.4	16.3	48.1
PT323	Н	1772			67	28			9.8	4.8	132	52	13.8	15.8	47.1
CROPLAN															
CP1066WC	OP	2191	1678	1934	83	93	92	92	9.8	4.3	134	59	9.1	18.1	44.7
Kansas State L	Iniversi	ty													
Surefire	OP	2378	1765	2072	90	95	93	94	9.8	4.5	131	56	8.6	17.0	45.2
Rubisco Seeds	5														
Triathlon	Н	3071			116	95			9.3	4.5	134	64	8.5	15.9	46.2
Janosh	Н	2842			108	78			9.8	5.0	130	58	9.2	15.2	47.0
Drifter	н	2874			109	93			9.8	4.5	129	59	8.0	14.5	47.8
Manhattan	н	3209			122	88			9.3	4.8	130	59	9.4	15.3	47.6
Beatrix CL	Н	2529			96	78			10.0	5.0	131	57	8.8	16.7	46.5
Mean		2638	2189			76	93		9.7	4.7	131	59	9.3	16.3	46.5
CV		19	21			20	6		6.5	10.3	1	6	10.6	7.9	2.4
LSD		729.2	ns			21	8		ns	ns	2	5	1.4	ns	ns
P-value		0.001	0.270			<.0001	0.094		0.804	0.435	<.0001	<.0005	<.0001	0.281	0.13

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.

¹Type: H=hybrid, OP=open-pollinated

²Use yield data with caution. A CV greater than 20 indicates higher experimental error. Make variety selection decisions based on more than one year's data. Yields adjusted to 9% moisture.

Table 29. Seed sources for entries in the 2023-2024 National Winter Canola Variety Trial

		1	Commercia				1	Commercial	
Source	Type ¹	Trait ²	Variety	Maturity ³	Source	Type ¹	Trait ²	Variety	Maturity
Bayer Crop Scien	ice				Kansas State Univ	versity Ca	inola Breedin	g Program	
Bryan Thomas (br		s@bayer.com)		Michael J. Stamm	-			
DK SEQUEL	н	SD		М	KS4662	OP			М
DK SEVERNYI	Н	SD		Μ	KS4737	OP			М
DK SEPHOR	Н	SD		Μ	KSR4767	OP	RR		М
DK EXPOWER	Н			М	KSR4839S	OP	RR/SURT		Μ
DK EXSTORM	Н			М	KSR4848	OP	RR		Μ
DK EXTERRIER	Н			М	KSR4854S	OP	RR/SURT		М
DK EXENTIEL	н			Μ	KSUR1212	OP	SU		М
OK EXCEPTION	н			Μ	Surefire	OP	SU	Y	MF
OK EXCLAIM	н			М	Wichita	OP			М
DK EXSTAR	н			М					
DK EXTREMUS	Н			M	Ohlde Seed Farm	c			
DK EXSTEEL	н			M	Shane Ohlde (shar		seed com)		
DK EXPAT	Н			M	Shahe Onide (Shah	le@onidea	seed.com)		
DK EXLEVEL	Н			M	Torrington	OP		Y	М
					Tornington	01		I	IVI
	Н			M					
	Н			M	Photosyntech				
	н			M	Bob Amstrup (bob.	amstrup@	photosyntech	.com)	
DK EXTRACT	Н			Μ					
DK EXIMA	Н			Μ	PST23YWT930	Н			М
DK EXPORTER	Н			Μ	PST23BACL09	Н	CL		М
DK EXPACITO	Н			M	PST23EX37D	Н			М
					PST23YW1112	Н			М
Corteva Agriscie	nces				PST23BACL249	Н	CL		M
Andrew Hopkins (a	andrew.ho	pkins@corteva	a.com)		PST23YW1721	Н			M
					PST23YW314	Н			М
PT264	н			M					
PT299	Н			Μ	Rubisco Seeds LI				
PT302	Н			Μ	Claire Caldbeck (in	nfo@rubisc	coseeds.com)		
PT303	Н		Y	Μ					
PT312	Н			Μ	Beatrix CL	Н	CL	Y	М
PT314	Н		Y	Μ	Drifter	Н		Y	М
PT319	Н			Μ	Janosh	Н		Y	M
PT320	Н			Μ	Manhattan	Н		Y	М
PT321	Н			Μ	Triathlon	Н		Y	М
PT323	Н			М					
					Star Specialty See	eds, Inc.			
CROPLAN					Jim Johnson (jimj_	star@hotn	nail.com)		
Mick Miller (MMille	r5@lando	lakes.com)			Star 930W	OP	RR	Y	ME
CP225WRR	OP	RR/SURT	Y	М				ſ	
CP320WRR	OP	RR	Ý	M					
CP1022WC	OP	G2FLEX	Y	F					
CP1022WC CP1055WC	H	CL	Y	м					
CP1066WC	OP		Y	MF					
CP1077WC	Н	PS	Y	M					

¹OP=open pollinated. H=hybrid.

²CL=Clearfield (imidazolinone resistant). RR=Roundup Ready (glyphosate resistant). SD=semi-dwarf hybrid. SU, SURT=sulfonylurea carryover tolerant. G2FLEX=tolerance to Group 2 soil residual. PS=pod shatter

³E=Early. ME=Medium early. M=Medium. MF=Medium full. F=Full.

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