

Report of Progress 1178



2022 National Winter Canola Variety Trial and Roundup Ready Variety Trials

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Contribution no. 23-276-S from the Kansas Agricultural Experiment Station

2022 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 30 test sites in 15 states for the 2021–2022 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 43 entries, 13 are commercial and 30 are experimental. These entries were provided by seven 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 ft²) with three or four Cultural replications. practices, site descriptions, growing conditions. 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 2022–2023 growing season and includes 42 entries. Seven

seed suppliers contributed to the trial, and it was distributed to 32 locations in 15 states.

2021–2022 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 long-term 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 "21-22" represents actual precipitation. If weather information was not provided, data were taken from a nearby town.

In general, the 2021–2022 growing season was marked by dry conditions in the Great Plains, resulting in lower-than-normal yields. Temperatures fluctuated throughout the winter but only minimal winterkill was observed. However, the dry winter conditions resulted in reduced biomass production, limiting yield formation. Spring rains arrived during grain filling but were too late and caused only modest recovery. Some locations in the Southeast received too much rainfall in the spring.

Test Sites and Results

Nineteen harvested test sites in eleven states are included in this report: Dallas Center, IA; Vincennes, IN; Belleville, Hutchinson, Manhattan, and Norwich, KS; St. Joseph, LA; Newton and Stoneville, MS (2 sites); Bozeman, Creston, and Moccasin, MT; Clovis, NM; Perkins, OK; Ashland City and Springfield, TN; Orange, VA; and Alburgh, VT. Eleven locations were not harvested or had poor data quality because of inadequate stand establishment, winterkill, or heavy rainfall. A new cooperator in 2021–2022 is St. Joseph, LA.

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.

Overall, yields were below average for many locations. Open pollinated trial means ranged from 93 to 2,457 lb/acre. Nine OP trials produced average yields greater than 1,500 lb/acre. Hybrid trial means ranged from 64 to 3,976 lb/acre. Six hybrid trials produced average yields greater than 1,500 lb/acre.

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 35 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 Kansas Agricultural Experiment Station. 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.

Greg Lillard

Virginia Tech University

Planted: 9/27/2021 in 7.5-in. rows

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

Desiccant: None Harvested: 6/20/2022

Herbicides: 1.5 pt/a Trifluralin, 2 qt/a Roundup

Insecticides: None Fungicide: None

Previous crop: Summer cover sudan grass
Soil test: P=23 ppm, K=171 ppm, pH=6.6
Fertilizer: 40-40-40 lb/a N-P-K fertilizer in fall

120-0-0 lb/a N-P-K fertilizer split application in spring

Soil type: Davidson silty clay Latitude: 38.216667 Elevation: 510 ft. Longitude: -78.116667

Comments: Yields were excellent and the hybrids

showed an advantage over the open-

pollinated cultivars.

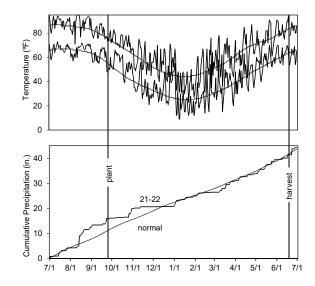


Table 1. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Orange, VA

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1693	1851	1772	84				7.7	4.7	101	50	10.4	47.9	23.0	39.1
CP320WRR	1467	1724	1596	73				9.7	5.0	98	47	10.8	45.1	21.7	40.1
CP1022WC	2034	1630	1832	101				9.0	5.0	108	58	14.4	46.1	21.5	41.8
CP1066WC	2224	2010	2117	111				8.0	5.0	101	56	13.2	46.9	21.9	41.2
Kansas State Univer	sity														
KS4662	1932	1526	1729	96				9.3	5.0	98	55	11.4	47.7	22.4	40.1
KS4722	1819			91				7.3	5.0	98	54	11.0	47.6	22.3	40.4
KS4753	2510			125				9.3	5.0	102	58	11.0	47.1	22.5	41.3
KSR4767	2124	1358	1741	106				10.0	5.0	98	52	10.8	47.6	22.2	40.2
KSR4839S	1612			80				8.7	5.0	102	54	10.2	43.5	20.5	42.6
KSR4848	2270	1131	1701	113				8.7	5.0	102	55	12.7	47.3	21.6	40.7
KSR4854S	2470	1545	2007	123				9.3	5.0	101	55	10.7	47.0	22.8	40.3
KSUR1212	1960	1399	1680	98				7.7	5.0	101	56	10.9	45.4	21.8	41.2
Griffin	1940	1892	1916	97				9.0	5.0	98	48	10.8	46.9	22.2	40.5
Riley	2063	1762	1913	103				7.7	5.0	98	50	11.8	45.5	22.2	40.6
Surefire	2565	2251	2408	128				8.7	5.0	98	57	11.7	47.2	22.6	40.6
Wichita	2225	1691	1958	111				7.3	4.7	101	54	10.6	47.5	22.9	39.9
Ohlde Seed Farms															
Torrington	1736	2232	1984	87				6.3	5.0	98	55	12.6	47.0	21.6	40.6
Star Specialty Seed															
Star 930W	1436	1763	1600	72				8.3	5.0	98	49	10.5	43.9	22.6	39.6
Grand Mean	2005	1675						8.4	5.0		54	11.4	46.5	22.1	40.6
CV	24	31						15.9	3.8		4	7.7	5.2	3.3	2.2
LSD (0.05)	522	450						ns	ns		4	1.5	ns	ns	ns

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 2. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Orange, VA

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb/	(a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	3888			98	100			7.7	4.7	102		13.8	45.3	19.8	43.9
PT264	3936	1355	2646	99	100			9.0	5.0	101		12.4	46.5	19.5	43.8
PT271	3734	1643	2688	94	100			7.3	5.0	101		11.0	47.5	18.7	45.4
PT275	4027	1706	2866	101	100			7.7	4.7	103		13.4	46.2	18.8	45.0
PT279CL	3718			94	100			10.0	5.0	98		9.8	46.0	18.9	43.5
PT284	3038			76	100			6.7	5.0	98		13.5	43.9	19.8	43.6
PT293	4407	1790	3099	111	100			8.3	4.7	98		13.4	43.1	18.9	45.3
PT297	3851	1955	2903	97	98			9.3	5.0	101		15.0	45.0	18.4	45.4
PT299	3958			100	98			8.0	4.7	98		14.2	45.4	18.6	45.4
PT302	4345			109	100			8.3	5.0	103		15.3	46.3	18.1	45.2
PT303	3478			87	93			7.7	5.0	103		14.8	45.3	19.2	44.7
PT305CL	4971			125	100			9.3	5.0	101		14.2	47.8	20.3	44.1
PT308	3229			81	100			8.0	5.0	98		12.0	46.4	19.3	44.9
PX125CL	3985			100	100			9.3	5.0	103		12.4	46.8	21.4	41.1
PX128	3979	1313	2646	100	100			9.0	5.0	101		14.9	43.5	20.1	44.5
PX131	3499	1331	2415	88	100			8.7	5.0	99		14.3	46.7	19.0	45.6
PX133	3391			85	100			9.3	5.0	98		11.3	47.2	21.5	40.9
PX135	4401			111	100			7.0	4.3	98		13.5	44.5	19.1	43.9
PX139CL	4139			104	100			9.3	5.0	101		9.9	46.5	20.3	42.8
PX140	4212			106	100			9.3	3.7	103		13.0	46.8	19.5	44.3
PX141	4070			102	100			8.0	5.0	102		10.2	46.0	19.1	45.0
PX142	4516			114	100			8.3	4.3	98		11.4	46.3	19.8	43.7
CROPLAN															
CP1077WC	4490	1547	3018	113	100			8.0	5.0	98		11.4	46.0	19.3	43.0
KWS-MOMONT															
KWS Sauros CL	4899	1948	3424	123	100			9.7	5.0	103		10.6	45.6	21.2	39.6
Rubisco Seeds															
Plurax CL	3235	1809	2522	81	100			9.7	5.0	98		11.0	45.0	20.1	43.3
Grand Mean	3976	1775			100			8.5	4.8	100		12.7	45.8	19.6	43.9
CV	20	32			2			15.8	10.0	0		10.6	4.2	3.7	1.8
LSD (0.05)	ns	ns			ns			ns	ns	1		2.2	ns	1.5	1.6

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.

Adam Walters and Andrew Hopkins Corteva Agriscience

Planted: 9/8/2021 in 7.5-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a
Desiccant: Roundup

Harvested: 7/9/2022

Herbicides: Roundup pre-plant

Insecticides: None Fungicide: None Previous crop: Peas

Fertilizer: 60-40-60 lb/a N-P-K fertilizer

Soil type: Nicollet loam Latitude: 41.68427
Elevation: 1000 ft. Longitude: -93.90047
Comments: Yields were slightly better in 2022.

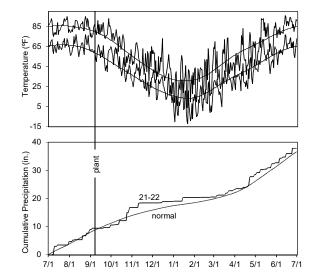


Table 3. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Dallas Center, IA

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1161	1033	1097	88						129		10.5		24.4	37.3
CP320WRR	1873	1178	1526	142						128		10.1		22.8	39.1
CP1022WC	1046	595	821	80						132		10.1		23.5	38.3
CP1066WC	1527	1380	1453	116						130		10.7		23.4	39.1
Kansas State Univer	sity														
KS4662	1463	864	1164	111						129		10.1		23.3	39.4
KS4722	1172			89						129		10.0			
KS4753	1534			117						130		9.8		25.4	38.2
KSR4767	1286	640	963	98						131		11.0		25.2	37.1
KSR4839S	1174			89						130		10.1		23.2	40.2
KSR4848	1009	1111	1060	77						131		10.7		21.4	44.2
KSR4854S	1237	774	1006	94						131		10.6		24.9	37.1
KSUR1212	1439	1044	1241	109						128		10.1		23.2	39.9
Griffin	891	1380	1136	68						127		10.3		22.1	40.8
Riley	1761	1504	1632	134						127		9.4		22.8	40.7
Surefire	1406	1095	1251	107						131		9.9			
Wichita	1210	786	998	92						129		10.3		24.4	38.4
Ohlde Seed Farms															
Torrington	1173	1167	1170	89						130		10.5		25.1	37.3
Star Specialty Seed															
Star 930W	1406	1223	1315	107						128		11.0		23.5	38.5
Grand Mean	1315	1037								129		10.3		23.7	38.9
CV	24	46								1		5.5		6.7	4.1
LSD (0.05)	457	ns								2		ns		ns	ns

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 for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Dallas Center, IA

				Yield (% of				Fall	Fall	50%	Plant	•	Test		
Name	Yi	eld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	<u> </u>	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience								•		. ,	• •			• •	
44D06	1603			125						127		9.1		20.9	41.3
PT264	1536	1683	1610	120						132		7.7		20.8	43.0
PT271	861	1358	1109	67						128		7.9		20.1	42.4
PT275	1121	1884	1503	87						131		9.9		22.9	39.9
PT279CL	989			77						128		9.3		22.0	38.8
PT284	1481			115						129		8.6		19.1	43.7
PT293	1373	2154	1764	107						130		7.8		19.5	43.2
PT297	1054	898	976	82						132		6.9		23.0	40.0
PT299	958			75						130		7.4		22.0	41.4
PT302	1335			104						130		7.0		21.7	40.6
PT303	1135			88						134		8.2		21.7	42.3
PT305CL	1296			101						131		8.4		23.3	38.8
PT308	1181			92						131		7.9		21.0	41.9
PX125CL	1583			123						129		9.2		22.0	39.5
PX128	1770	1672	1721	138						130		7.7		22.2	41.5
PX131	1043	1425	1234	81						132		7.1		21.8	42.9
PX133	935			73						131		8.9		23.8	38.8
PX135	1680			131						130		8.4		21.9	43.0
PX139CL	1293			101						129		7.9		23.9	41.2
PX140	1441			112						128		9.1		23.4	42.2
PX141	1126			88						129		8.1		24.6	37.7
PX142	1160			90						129		8.3		20.3	43.3
CROPLAN															
CP1077WC	1715	2278	1996	134						131		9.3		22.6	39.8
KWS-MOMONT															
KWS Sauros CL	951	1908	1429	74						131		9.2		24.4	39.2
Rubisco Seeds															
Plurax CL	1229	1717	1473	96						129		8.7		22.1	40.2
Grand Mean	1283	1729										8.3		22.1	40.9
CV	35	19										15.8		9.5	4.3
LSD (0.05)	ns	589										ns		ns	ns

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.

Vincennes, Indiana

Kenneth Eck Purdue University

Planted: 9/17/2021 Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: 6/10/2022 Reglone 1.5 pt/a

Harvested: 6/20/2022

Herbicides: N/A

Insecticides: 1.92 oz/a Warrior II

Fungicide: 12 oz/a Quadris Top, 5.7 oz/a Proline 280C

Previous crop: N/A Soil test: N/A

Fertilizer: 166-18-11-35-6-0.5-1 N-P-K-S-Mg-Cu-B fertilizer

Soil type: N/A Latitude: N/A
Elevation: N/A Longitude: N/A
Comments: Yields were lower than normal. A few

localized wet spots in field caused

lodging in some OP plots.

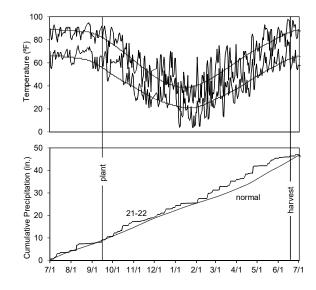


Table 5. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Vincennes, IN

				Yield (% of	Wint	er sur	vival	Fall	50%	Plant			Test		
Name	Yi	eld (lb	/a)	test avg.)		(%)		vigor	bloom	height	Lodging	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(1-5)	(d)	(in.)	(%)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1787	2282	2035	116	99	96	98	4.8	106	52	3.3	7.1	51.2	21.7	41.4
CP320WRR	1672	2540	2106	108	98	96	97	4.8	105	51	8.3	7.0	51.6	21.6	40.9
CP1022WC	765	2326	1546	49	100	97	98	4.7	114	52	7.3	6.9	51.4	22.4	42.2
CP1066WC	2623	2846	2735	170	98	95	96	5.0	107	56	0.0	7.0	51.6	20.7	42.8
Kansas State Univer	sity														
KS4662	1759	2638	2198	114	99	94	97	5.0	106	53	1.7	6.7	50.9	20.6	43.1
KS4722	1283			83	99			5.0	104	52	1.3	7.4	50.9	20.7	43.0
KS4753	1387			90	99			4.7	110	55	8.3	7.0	51.4	20.7	44.0
KSR4767	1315	2241	1778	85	98	96	97	5.0	105	55	1.7	6.9	51.4	22.0	40.9
KSR4839S	1072			69	97			4.8	110	54	27.7	7.7	51.4	20.6	44.2
KSR4848	1811	1973	1892	117	99	95	97	4.8	109	54	0.0	7.2	50.9	20.7	42.9
KSR4854S	1284	1769	1526	83	98	94	96	4.8	110	54	5.0	7.1	50.8	21.9	42.0
KSUR1212	1856	2333	2095	120	99	97	98	5.0	108	54	1.7	7.0	51.6	20.8	42.6
Griffin	1159	3045	2102	75	99	97	98	5.0	102	49	29.7	6.9	51.9	21.3	41.4
Riley	1699	2493	2096	110	99	95	97	5.0	103	53	5.0	6.6	51.6	20.9	43.0
Surefire	1273	2863	2068	82	97	95	96	4.8	108	54	7.3	6.7	51.8	21.7	42.0
Wichita	1482	2681	2081	96	99	96	98	5.0	106	53	8.3	7.0	51.6	22.1	41.6
Ohlde Seed Farms															
Torrington	1750	2700	2225	113	99	96	98	5.0	105	53	0.7	7.0	51.5	21.2	42.1
Star Specialty Seed															
Star 930W	1457	2672	2065	94	97	95	96	4.7	105	51	23.3	6.7	51.8	21.3	42.0
Grand Mean	1547	2432			98	95		4.9	107	53	7.8	7.0	51.4	21.3	42.4
CV	18	15			1	2		4.3	1	3	231.6	4.7	8.0	2.6	1.8
LSD (0.05)	491	596			ns	ns		ns	2	2	ns	ns	0.7	ns	1.6

Table 6. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Vincennes, IN

				Yield (% of	Wint	er sur			50%	Plant			Test		
Name				test avg.)		(%)			bloom	height	Lodging	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(1-5)	(d)	(in.)	(%)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience								, ,	` ′	` ′	` '	` '	,	` ′	` ′
44D06	2602			94				5.0	106	53	0.0	6.0	52.1	20.0	43.9
PT264	2957	3036	2996	107		94		5.0	112	60	0.0	6.1	50.9	19.3	45.7
PT271	1617	2732	2174	59		97		5.0	108	53	2.7	6.0	52.4	19.8	44.2
PT275	3278	3067	3173	119		96		5.0	109	55	1.7	6.2	51.9	20.4	44.1
PT279CL	2852			103				5.0	106	56	0.0	6.0	51.5	19.2	44.3
PT284	2532			92				5.0	105	53	0.0	6.1	51.7	19.9	43.8
PT293	3095	3167	3131	112		95		5.0	107	55	4.0	5.9	51.2	20.3	45.0
PT297	2906	3270	3088	105		97		5.0	108	56	1.7	5.9	51.5	18.7	46.0
PT299	2286			83				5.0	104	53	0.0	6.0	51.1	19.8	44.1
PT302	2372			86				5.0	108	53	0.7	6.2	51.9	19.5	44.4
PT303	2994			109				5.0	109	56	3.3	6.1	51.1	18.9	45.1
PT305CL	2824			102				5.0	112	56	0.0	6.1	52.1	20.6	44.2
PT308	2901			105				5.0	107	53	5.0	6.0	51.1	19.4	45.5
PX125CL	2648			96				5.0	107	53	0.0	6.1	52.2	21.1	42.9
PX128	2854	2578	2716	103		96		5.0	112	55	0.0	6.0	51.8	20.4	45.4
PX131	2998	2367	2683	109		95		5.0	106	54	0.0	6.0	50.9	19.5	46.5
PX133	3147			114				5.0	105	50	0.0	6.0	51.5	21.2	43.5
PX135	3212			116				5.0	106	55	0.0	5.9	50.9	20.0	45.1
PX139CL	2410			87				5.0	107	51	0.0	6.1	52.7	20.4	43.2
PX140	3033			110				4.8	112	56	0.0	6.0	51.2	20.0	45.0
PX141	2805			102				5.0	112	56	0.0	6.1	51.7	19.4	45.4
PX142	2581			94				5.0	105	53	0.0	6.0	51.1	20.2	44.8
CROPLAN															
CP1077WC	3025	2829	2927	110		96		5.0	106	56	0.7	6.2	50.9	19.9	43.6
KWS-MOMONT															
KWS Sauros CL	2823	2921	2872	102		95		5.0	109	57	0.0	6.1	51.3	20.6	42.3
Rubisco Seeds															
Plurax CL	2211	2422	2316	80		92		5.0	104	53	0.0	6.1	52.2	19.7	44.2
Grand Mean	2758	2800				96		5.0	108	54	0.8	6.0	51.6	19.9	44.5
CV	15	14				2		1.2	1	2	322.0	2.7	0.7	2.4	1.4
LSD (0.05)	692	651				ns		ns	3	2	ns	ns	0.6	1.0	1.3

St. Joseph, Louisiana

Dennis Burns

Louisiana State University AgCenter

Planted: 11/2/2021 Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: Roundup
Harvested: 6/6/2022
Herbicides: Clethodim
Insecticides: None
Fungicide: None
Previous crop: N/A

Fertilizer: 21-0-0-7 lb/a N-P-K-S fertilizer in fall

136-0-0-19 lb/a N-P-K-S fertilizer in spring

Soil type: N/A Lattitude: N/A Elevation: N/A Longitude: N/A

Comments: Some vernalization differences were

observed.

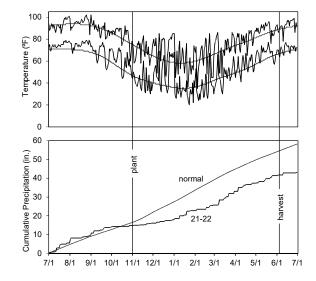


Table 7. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at St. Joseph, LA

				Yield (% of	Wint	er sui	vival	Verna-	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		lization ²	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(1-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	956			100				9.3	3.3	92	48	18.0	51.4	20.6	42.0
CP320WRR	1207			126				9.0	3.0	92	42	20.7	40.3	20.8	41.5
CP1022WC	582			61				1.3	3.0	106	53	26.4	23.7	20.9	41.7
CP1066WC	898			93				10.0	2.7	93	48	24.0	47.9	19.9	41.9
Kansas State Univer	sity														
KS4662	1046			109				7.7	3.0	93	45	22.1	44.9	19.5	43.1
KS4722	1161			121				8.3	3.0	92	46	25.0	47.8	19.6	43.6
KS4753	876			91				9.3	3.0	93	48	23.1	47.5	19.9	42.7
KSR4767	944			98				10.0	3.0	94	50	14.9	50.5	20.4	41.9
KSR4839S	858			89				9.7	3.3	93	49	22.1	48.1	19.4	42.6
KSR4848	551			57				5.3	3.0	99	48	21.8	44.4	20.0	41.6
KSR4854S	545			57				8.3	3.3	97	43	20.3	47.4	20.1	41.8
KSUR1212	947			99				6.7	3.0	93	44	22.9	47.2	19.3	42.6
Griffin	1192			124				8.3	3.3	90	41	19.8	47.5	18.9	42.9
Riley	1031			107				8.3	3.3	93	40	21.8	42.4	19.6	43.3
Surefire	758			79				6.0	3.0	98	47	22.9	47.8	20.7	42.2
Wichita	1851			193				10.0	3.0	92	45	20.6	47.9	20.0	42.7
Ohlde Seed Farms															
Torrington	965			101				10.0	3.0	91	46	18.0	48.3	19.8	42.1
Star Specialty Seed															
Star 930W	977			102				6.7	2.7	91	44	25.5	48.2	20.1	42.1
Grand Mean	960							8.0	3.1	94	46	21.7	46.0	20.0	42.4
CV	32							24.5	16.4	2	8	24.9	10.8	3.4	1.9
LSD (0.05)	523							3.3	ns	3	6	ns	8.6	ns	ns

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.

²Vernalization of plants winter plots rated on a scale of 1= minimal to 10= complete.

Table 8. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at St. Joseph, LA

				Yield (% of	Wint	er su	rvival	Verna-	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		lization ²	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022		2-yr.	(1-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience								,			. ,	. ,	, ,	` '	` '
44D06	1354			146				10.0	3.0	99	54	14.2	51.0	20.6	42.8
PT264	1977			213				10.0	3.7	96	56	13.6	50.2	22.6	41.6
PT271	596			64				8.7	3.7	99	51	19.0	47.5	21.1	41.8
PT275	763			82				8.3	3.7	100	49	22.2	48.5	22.2	40.8
PT279CL	1072			116				9.3	3.7	97	52	14.9	50.2	19.4	43.4
PT284	414			45				5.3	3.7	102	52	23.6	47.8	20.9	42.0
PT293	617			67				7.0	3.3	98	48	15.9	49.3	19.0	44.0
PT297	922			99				6.3	3.7	99	44	17.9	48.9	20.5	43.0
PT299	831			90				9.0	3.0	93	45	16.1	48.9	18.6	45.3
PT302	1047			113				9.7	2.7	95	50	15.9	47.8	19.3	43.5
PT303	1636			176				9.7	3.3	92	57	12.7	50.8	19.3	44.5
PT305CL	334			36				2.7	3.3	110	50	21.8	38.8	19.9	42.8
PT308	586			63				7.3	3.3	98	51	16.0	42.3	19.7	43.2
PX125CL	1047			113				9.0	3.7	94	51	15.0	50.1	21.4	40.8
PX128	517			56				8.0	3.7	108	53	21.5	43.9	22.9	41.3
PX131	951			103				9.0	3.3	100	53	17.6	48.7	20.8	42.8
PX133	1050			113				10.0	3.7	93	53	15.6	48.9	21.4	42.5
PX135	1179			127				8.3	3.3	101	52	13.6	49.7	20.7	43.3
PX139CL	246			27				2.7	2.7	110	46	21.1	33.3	22.7	41.3
PX140	636			69				8.7	3.3	102	48	19.1	48.1	21.9	42.5
PX141	768			83				10.0	4.0	98	50	15.7	49.5	21.7	42.7
PX142	1171			126				10.0	3.3	97	51	13.1	49.2	19.5	45.1
CROPLAN															
CP1077WC	1046			113				7.3	4.0	101	51	17.3	49.2	19.4	43.0
KWS-MOMONT															
KWS Sauros CL	1168			126				9.0	3.3	99	54	14.7	50.1	22.4	40.0
Rubisco Seeds															
Plurax CL	1262			136				10.0	3.3	92	47	12.6	51.4	18.5	43.0
Grand Mean	928							8.2	3.4	99	51	16.8	47.8	20.6	42.7
CV	41							21.8	15.5	3	8	11.7	8.9	3.9	1.5
LSD (0.05)	631							2.9	ns	4	6	3.2	7.0	1.7	1.3

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.

²Vernalization of plants winter plots rated on a scale of 1= minimal to 10= complete.

Newton, Mississippi

Brett Rushing

Mississippi State University

Planted: 10/8/2021 in 7.5-in. rows

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

Desiccant: Roundup
Harvested: N/A

Herbicides: 1 pt/a Treflan

Insecticides: None Fungicide: None

Previous crop: Summer annul forage
Soil test: P=67 lb/a, K=126 lb/a, pH=7.4
Fertilizer: 100-0-60 lb/a N-P-K fertilizer in fall

Soil type: Prentiss fine sandy loam Lattitude: 32.333889
Elevation: 351 ft. Longitude: -89.085278

Comments: Heavy rain before harvest reduced

yield due to shattering.

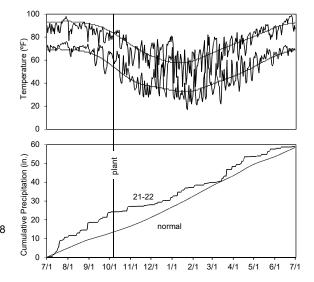


Table 9. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Newton, MS

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant				
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Lodging	Shatter	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)	(%)
CROPLAN															
CP225WRR	35			43				9.3	4.3	83	52	1.7	10.0	22.9	39.4
CP320WRR	43			54				9.3	4.3	82	51	0.7	15.3	22.9	39.1
CP1022WC	36			45				9.0	4.3	95	65	0.0	1.0	22.6	39.8
CP1066WC	81			100				10.0	5.0	88	60	0.7	6.7	19.8	34.5
Kansas State Univer	sity														
KS4662	33			41				9.7	4.3	84	55	1.3	7.7	20.8	36.7
KS4722	83			102				8.7	4.3	84	55	0.3	13.7	21.9	42.0
KS4753	22			27				9.3	4.3	87	58	1.7	7.0	23.3	38.3
KSR4767	49			61				8.3	4.3	84	58	2.0	2.0	23.2	39.7
KSR4839S	69			85				8.3	4.3	88	54	3.3	31.7	22.7	40.4
KSR4848	22			28				9.7	4.3	87	56	2.3	5.3	11.4	30.4
KSR4854S	205			254				9.0	4.3	88	59	1.0	5.0	21.7	39.7
KSUR1212	71			88				9.0	4.3	86	56	1.3	7.0	22.4	39.7
Griffin	19			23				10.0	4.3	82	46	0.0	53.3	22.3	41.1
Riley	59			73				9.7	4.3	84	54	1.0	10.0	23.1	39.2
Surefire	43			54				9.0	4.3	87	56	0.0	4.3	20.5	42.0
Wichita	135			167				9.7	4.3	85	49	1.3	11.0	23.7	38.8
Ohlde Seed Farms															
Torrington	101			125				10.0	5.0	88	59	0.3	14.3	22.6	39.9
Star Specialty Seed															
Star 930W	50			62				10.0	5.0	84	55	0.3	12.7	23.5	38.5
Grand Mean	64							9.3	4.4	86	56	1.1	12.1	21.7	38.8
CV	116							10.2	10.0	3	10	184.6	117.1	17.5	9.6
LSD (0.05)	ns							ns	ns	4	9	ns	23.5	ns	ns

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 10. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Newton, MS

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant				
Name	Yi	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Lodging	Shatter	Protein	Oil
		2021		2022	2022		2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(%)	(%)	(%)
Corteva Agriscience								•		. ,		• •	• •	` '	`
44D06	92			114						91	52		10.7	22.7	40.8
PT264	75			92						88	59		1.7	23.1	41.2
PT271	97			119						89	52		30.0	16.6	46.5
PT275	280			345						91	52		18.3	23.2	39.8
PT279CL	42			52						85	54		30.0	21.6	40.1
PT284	49			60						89	60		10.7	24.2	39.2
PT293	47			58						88	51		15.0	23.3	39.2
PT297	59			73						88	52		6.7	23.9	40.6
PT299	108			134						82	56		60.0	20.8	43.0
PT302	75			93						83	55		22.7	21.7	42.0
PT303	165			204						84	59		18.3	24.3	39.4
PT305CL	85			105						93	55		1.7	22.4	41.1
PT308	95			117						84	52		13.3	21.0	41.9
PX125CL	66			81						91	54		2.7	23.0	41.3
PX128	54			66						93	57		5.0	22.0	40.0
PX131	138			171						89	58		1.3	21.6	42.2
PX133	62			77						84	50		30.0	20.6	42.4
PX135	83			103						89	54		2.7	23.6	39.8
PX139CL	152			188						93	49		5.7	21.9	41.4
PX140	51			62						91	56		18.3	22.0	41.6
PX141	35			43						93	55		13.3	23.2	40.3
PX142	187			231						91	49		6.0	20.1	43.4
CROPLAN															
CP1077WC	13			16						89	56		0.7	23.4	38.8
KWS-MOMONT															
KWS Sauros CL	163			201						87	59		2.0	23.5	38.1
Rubisco Seeds															
Plurax CL	52			65						87	50		13.3	21.3	41.3
Grand Mean	93									89	54		13.6	22.3	40.9
CV	103									3	5		86.2	8.7	6.4
LSD (0.05)	ns									4	5		19.2	ns	ns

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

Bob Suttner and Andrew Hopkins Corteva Agriscience

Planted: 11/1/2021 in 7.5-in. rows

Seeding Rate OP: 525,000 seeds/a Seeding Rate Hybrid: 310,000 seeds/a

Desiccant: Defol
Harvested: 6/15/2022
Herbicides: Treflan
Insecticides: None
Fungicide: None
Previous crop: N/A

Fertilizer: 21-0-0-24 lb/a N-P-K-S fertilizer in fall

42-22.5-60-46 lb/a N-P-K-S fertilizer in spring

Soil type: N/A Latitude: N/A
Elevation: N/A Longitude: N/A
Comments: Yields were low for the region and

variability was high.

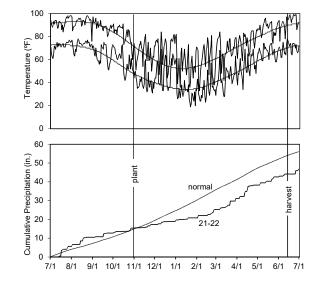


Table 11. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Stoneville, MS

				Yield (% of	Wint	er su	vival	Fall	50%		Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		stand	bloom	Maturity	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(d)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1215			87	80			7.3	110	156	61	12.7			
CP320WRR	1701			121	90			6.3	109	155	57	10.1			
CP1022WC	877			63	77			7.3	115	160	73	12.8			
CP1066WC	1444			103	67			6.7	112	156	60	10.1			
Kansas State Univer	sity														
KS4662	1827			130	87			6.7	110	157	64	9.3			
KS4722	1569			112	90			8.0	111	156	61	12.7			
KS4753	1368			98	77			7.7	112	157	62	12.2			
KSR4767	1703			121	83			7.3	109	155	59	8.4			
KSR4839S	1286			92	87			6.3	110	157	65	8.9			
KSR4848	1335			95	90			8.0	112	158	62	9.5			
KSR4854S	794			57	67			6.0	111	158	67	11.0			
KSUR1212	1579			113	87			8.3	111	158	57	9.5			
Griffin	1371			98	90			7.0	114	156	60	8.1			
Riley	1686			120	80			7.0	112	156	58	11.3			
Surefire	1105			79	77			7.7	111	158	63	12.5			
Wichita	1537			110	90			6.7	111	156	58	8.5			
Ohlde Seed Farms															
Torrington	1441			103	93			7.0	111	157	59	10.6			
Star Specialty Seed															
Star 930W	1290			92	80			7.3	110	156	60	11.0			
Grand Mean	1403				83			7.1	111	157	61	10.5			
CV	27				15			14.3	1	1	9	28.8			
LSD (0.05)	417				ns			ns	1	2	7	ns			

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 12. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Stoneville, MS

				Yield (% of				Fall	50%	, at otom	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	bloom	Maturity	height	Moisture	weight	Protein	Oil
		2021		2022	2022		2-yr.	(0-10)	(d)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	1815			106	87			6.7	112	158	63	8.5			
PT264	1898			111	77			6.7	112	158	62	8.2			
PT271	664			39	63			6.7	113	160	61	9.2			
PT275	1382			81	87			6.0	114	159	64	10.2			
PT279CL	1913			112	83			6.7	111	158	61	9.7			
PT284	1261			74	70			6.3	111	158	65	9.7			
PT293	2058			120	90			6.7	112	158	59	9.0			
PT297	1547			91	80			6.3	112	159	62	9.3			
PT299	1581			93	67			7.3	109	156	62	9.0			
PT302	1811			106	67			6.7	111	158	59	9.9			
PT303	1683			99	80			6.3	111	157	67	9.9			
PT305CL	1668			98	80			7.3	116	162	57	8.6			
PT308	2089			122	97			7.3	111	157	63	9.2			
PX125CL	1512			89	83			6.3	112	159	63	8.9			
PX128	1128			66	63			7.7	116	163	64	11.9			
PX131	1578			92	93			7.7	114	161	64	9.4			
PX133	1891			111	83			7.0	108	158	61	8.7			
PX135	2046			120	90			7.7	112	160	68	9.3			
PX139CL	1808			106	90			7.3	115	161	63	9.8			
PX140	2017			118	67			7.0	115	160	65	10.2			
PX141	1228			72	90			6.7	115	159	63	9.8			
PX142	2280			133	87			7.7	112	158	65	10.2			
CROPLAN															
CP1077WC	1930			113	90			7.3	111	159	63	10.0			
KWS-MOMONT															
KWS Sauros CL	2000			117	70			5.3	111	159	63	8.5			
Rubisco Seeds															
Plurax CL	1808			106	87			6.3	111	157	65	9.9			
Grand Mean	1708				81			6.8	112	159	63	9.4			
CV	21				20			13.8	1	1	7	12.2			
LSD (0.05)	590				ns			ns	1	2	7	ns			

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

Bob Suttner and Andrew Hopkins Corteva Agriscience

Planted: 11/3/2021 in 7.5-in. rows

Seeding Rate OP: 525,000 seeds/a Seeding Rate Hybrid: 310,000 seeds/a

Dessicant: Defol
Harvested: 6/16/2022
Herbicides: Treflan
Insecticides: None
Fungicide: None
Previous crop: N/A

Fertilizer: 21-0-0-24 lb/a N-P-K-S fertilizer in fall

42-22.5-60-46 lb/a N-P-K-S fertilizer in spring

Soil type: N/A Lattitude: N/A
Elevation: N/A Longitude: N/A
Comments: Yields were low and variable.

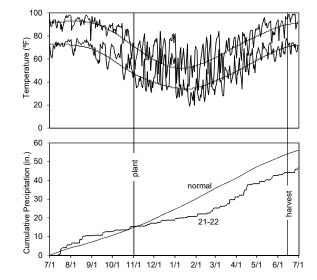


Table 13. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Stoneville, MS

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1020			100	83			6.0		111	50	9.3			
CP320WRR	1140			112	53			5.7		111	41	10.2			
CP1022WC	498			49	57			6.7		120	44	7.9			
CP1066WC	1077			106	80			6.3		113	43	11.1			
Kansas State Univer	sity														
KS4662	1214			119	83			7.0		113	47	11.0			
KS4722	892			88	87			6.7		111	47	10.3			
KS4753	1112			109	83			7.0		111	54	11.4			
KSR4767	1269			125	57			6.0		111	47	10.9			
KSR4839S	515			51	67			6.3		114	38	8.7			
KSR4848	986			97	83			7.3		115	48	11.0			
KSR4854S	1241			122	90			9.0		116	44	11.6			
KSUR1212	1308			129	87			7.0		111	51	11.3			
Griffin	836			82	63			6.0		112	37	9.4			
Riley	1211			119	83			7.0		113	43	11.5			
Surefire	842			83	70			7.0		114	41	10.4			
Wichita	1245			122	63			6.3		114	46	10.9			
Ohlde Seed Farms															
Torrington	1045			103	80			6.7		112	48	11.0			
Star Specialty Seed															
Star 930W	1163			114	73			6.0		112	43	10.6			
Grand Mean	1017				75			6.7		113	44	10.4			
CV	23				25			16.5		1	11	7.9			
LSD (0.05)	409				ns			ns		2	9	1.5			

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 adjust to 9% moisture content.

Table 14. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Stoneville, MS

				Yield (% of				Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb.	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022		2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience								•				. ,		. ,	
44D06	1401			135	80			6.3		111	49	9.9			
PT264	1654			159	90			7.3		112	51	9.3			
PT271	578			56	70			5.7		116	45	8.4			
PT275	947			91	73			4.7		118	47	9.4			
PT279CL	1295			125	80			6.7		112	49	9.2			
PT284	461			44	80			6.7		115	44	9.4			
PT293	1132			109	77			6.7		115	48	8.4			
PT297	1227			118	73			6.3		115	48	8.9			
PT299	703			68	87			6.7		110	47	8.7			
PT302	721			69	53			4.7		113	44	7.4			
PT303	1059			102	80			6.3		113	49	8.9			
PT305CL	1047			101	77			6.7		118	51	9.1			
PT308	1140			110	90			8.0		113	48	8.7			
PX125CL	1106			106	87			7.3		113	48	9.7			
PX128	607			58	90			6.7		117	48	10.1			
PX131	816			78	90			7.0		118	47	8.3			
PX133	851			82	73			6.3		110	46	8.1			
PX135	1263			121	90			8.0		116	47	8.9			
PX139CL	1114			107	83			6.3		119	43	8.8			
PX140	1153			111	83			7.7		118	51	9.1			
PX141	913			88	73			7.3		117	49	8.1			
PX142	1061			102	77			6.7		113	49	8.5			
CROPLAN															
CP1077WC	1638			158	87			7.0		113	42	9.8			
KWS-MOMONT															
KWS Sauros CL	1250			120	80			5.3		114	46	8.8			
Rubisco Seeds															
Plurax CL	854			82	83			7.7		110	48	8.7			
Grand Mean	1040				80			6.6		115	47	8.9			
CV	25				17			22.1		2	7	12.6			
LSD (0.05)	421				ns			ns		3	ns	ns			

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 adjust to 9% moisture content.

Ashland City, Tennessee

Jason de Koff

Tennessee State University

Planted: 9/28/2021 in 6-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a

Desiccant None Harvested: 6/9/2022

Herbicides: 0.7 lb ai/a trifluralin, 5.4 lb ai/a glyphosate

Insecticides: None
Fungicide: None
Previous crop: Summer fallow

Call tant

Soil test: N/A

Fertilizer: 27-0-0-30 lb/a N-P-K-S fertilizer in fall 74-0-40 lb/a N-P-K fertilizer in spring

Soil type: Lindside-Nolin silt loam Latitude: N/A Elevation: 400 ft. Longitude: N/A

Comments: Only non-GMO entries at this site.

Yields were excellent in 2022.

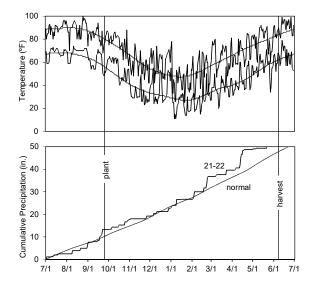


Table 15. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Ashland City, TN

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP1022WC	1643	3155	2399	71		67								20.0	43.0
CP1066WC	2091	2755	2423	90		58								18.7	44.6
Kansas State Univer	sity														
KS4662	2577	2111	2344	111		50								19.2	44.3
KS4722	2412			104										18.4	44.9
KS4753	2426			105										19.8	44.2
KSUR1212	1983	1857	1920	86		48								18.8	44.9
Griffin	2348	1571	1959	101		65								18.7	44.5
Riley	2818	1560	2189	122		54								19.4	44.8
Surefire	2146	3291	2718	93		66								20.2	43.7
Wichita	3033	3631	3332	131		62								19.7	43.6
Ohlde Seed Farms															
Torrington	1975	2740	2357	85		65								19.8	43.3
Grand Mean	2314	2345				58								19.3	44.1
CV	16	23				14								3.7	1.9
LSD (0.05)	519	1243				ns								ns	ns

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 2022 National Winter Canola Variety Trial, hybrid cultivars, at Ashland City, TN

				Yield (% of	Wint	er sui	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb.	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022		2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience												• •		•	
44D06	3923			134										18.6	45.0
PT264	2799	3506	3153	96		62								17.8	46.7
PT271	3107	3439	3273	106		69								18.3	45.9
PT275	3236	3133	3185	111		48								19.1	45.1
PT279CL	3668			125										18.1	45.1
PT284	2414			83										18.5	45.2
PT293	3233	3084	3159	110		79								18.2	46.6
PT297	3040	3458	3249	104		72								17.4	46.7
PT299	3187			109										17.1	47.7
PT302	2719			93										18.0	46.2
PT303	2870			98										18.1	47.3
PT305CL	3241			111										18.9	45.7
PT308	2670			91										17.8	46.2
PX125CL	2570			88										19.6	43.7
PX128	2567	3381	2974	88		62								19.5	45.2
PX131	2391	4004	3197	82		44								17.8	47.1
PX133	2608			89										17.6	46.4
PX135	1734			59										17.7	46.4
PX139CL	3439			118										19.1	44.5
PX140	2764			94										18.5	45.8
PX141	2501			85										18.5	46.3
PX142	2692			92										18.0	46.8
CROPLAN															
CP1077WC	3584	3570	3577	122		61								17.3	46.3
KWS-MOMONT															
KWS Sauros CL	2996	3983	3490	102		54								18.5	44.1
Rubisco Seeds															
Plurax CL	3198	2287	2742	109		43								18.7	44.8
Grand Mean	2926	3495				59								18.3	45.9
CV	21	24				23								4.4	2.5
LSD (0.05)	ns	ns				ns								ns	ns

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.

Springfield, Tennessee

Mitchell Richmond and Brad Fisher University of Tennessee

Planted: 9/28/2021 in 7-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: N/A
Harvested: 6/13/2022
Herbicides: None
Insecticides: None

Fungicide: 7 fl oz/a Aframe, 4.3 fl oz/a Proline

Previous crop: Soybeans

Soil test: P=21 lb/a, K=101 lb/a, S=3 lb/a, pH=7.0 Fertilizer: 40-0-0-23-1 lb/a N-P-K-S-B in fall

160-29-30-23-1 lb/a N-P-K-S-B in spring

Soil type: Dickson silt loam Latitude: N/A Elevation: 706 ft. Longitude: N/A

Comments: Although lower than 2021, this site

produces consistent yields.

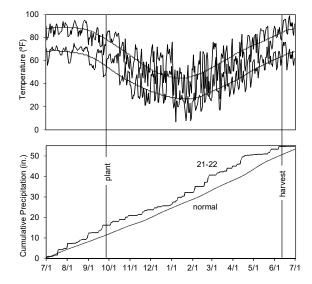


Table 17. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Springfield, TN

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP1022WC	2585	3898	3242	100				9.7	4.0	106	50	12.9		19.6	42.7
CP1066WC	2527	4272	3399	98				8.7	4.0	97	49	10.4		19.8	42.8
Kansas State Univer	sity														
KS4662	2318	4750	3534	90				9.7	4.3	97	48	11.9		22.5	41.1
KS4722	2265			88				9.7	4.0	91	44	10.6		18.5	43.6
KS4753	2667			104				9.3	4.0	99	50	10.5		21.7	41.6
KSUR1212	2037	4134	3085	79				9.0	4.0	96	47	11.2		18.2	43.2
Griffin	2562	3908	3235	99				9.7	4.3	95	43	9.7		25.1	38.7
Riley	2293	4603	3448	89				9.0	4.0	93	44	10.2		19.3	43.0
Surefire	2608	4450	3529	101				9.7	4.7	99	48	10.9		23.1	41.7
Wichita	2738	4553	3645	106				9.0	4.3	97	46	10.4		22.0	40.1
Ohlde Seed Farms															
Torrington	2430	4078	3254	94				9.3	4.0	94	45	10.7		21.5	41.7
Grand Mean	2457	4244						9.3	4.2	97	47	10.8		21.0	41.8
CV	16	6						6.1	8.1	2	11	8.5		11.1	4.2
LSD (0.05)	ns	458						ns	ns	4	ns	2		ns	ns

¹Yields adjusted to 9% moisture content.

Table 18. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Springfield, TN

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022		2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	2962			115				8.3	4.0	98	49	8.7		20.7	41.4
PT264	3271	4524	3897	127		100		9.0	4.0	98	53	8.7		21.6	41.9
PT271	2735	4633	3684	106		89		9.0	4.0	99	46	8.5		18.1	43.8
PT275	2641	4352	3496	102		93		8.3	4.3	99	47	9.0		17.4	44.8
PT279CL	2504			97				8.7	5.0	93	45	8.6		17.2	44.9
PT284	2235			87				9.0	4.3	93	43	10.1		17.9	44.8
PT293	2815	4675	3745	109		96		8.7	4.7	94	47	8.8		17.4	44.9
PT297	2394	3998	3196	93		92		8.7	5.0	93	44	10.0		16.6	45.4
PT299	2603			101				9.0	4.7	91	47	10.3		16.4	46.1
PT302	2397			93				8.0	4.3	95	43	9.3		18.7	43.4
PT303	2861			111				9.3	4.7	97	51	8.6		19.5	43.7
PT305CL	2563			99				9.7	4.3	97	48	8.5		17.7	44.2
PT308	2777			108				9.0	5.0	95	52	8.0		17.7	44.4
PX125CL	2712			105				9.0	4.0	95	45	7.8		20.2	42.1
PX128	2754	4071	3412	107		87		9.3	4.3	104	50	13.1		21.9	42.3
PX131	2578	4286	3432	100		100		8.7	4.3	99	46	9.1		16.4	45.8
PX133	2878			112				9.0	4.3	92	44	9.9		19.6	44.3
PX135	2720			106				9.0	4.0	95	44	7.9		18.2	43.8
PX139CL	2445			95				9.0	4.0	101	39	8.8		16.8	45.4
PX140	2406			93				9.3	4.7	102	49	10.7		20.1	43.2
PX141	2458			95				8.7	4.7	98	49	8.1		16.6	45.6
PX142	2757			107				8.3	4.0	96	46	8.7		20.0	43.8
CROPLAN															
CP1077WC	2686	4863	3775	104		96		9.0	4.7	93	43	8.7		16.7	45.6
KWS-MOMONT															
KWS Sauros CL	2475	4737	3606	96		89		8.0	4.0	95	48	9.6		16.9	45.3
Rubisco Seeds												•			
Plurax CL	2974	4228	3601	115		100		9.0	4.7	92	45	8.3		18.1	43.1
Grand Mean	2664	4486				94		8.8	4.4	96	47	9.1		18.3	44.2
CV	20	13				7		6.1	9.7	2	10	13.0		10.5	3.1
LSD (0.05)	ns	986				ns		ns	0.7	4	ns	2.0		ns	ns

¹Yields adjusted to 9% moisture content.

Belleville, Kansas

Scott Dooley

Kansas State University

Planted: 9/10/2021 in 10-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a
Swathed: 6/28/2022

Swathed: 6/28/2022 Harvested: 7/8/2022

Herbicides: 3 pt/a Acumen, 9 oz/a Assure II

Insecticides: None
Fungicide: None
Previous crop: Wheat

Fertilizer: 90-0-0-20 lb/a N-P-K-S fertilizer in spring

Soil type: Crete silt loam Latitude: 39.814246 Elevation: 1530 ft. Longitude: -97.671639

Comments: A combination of drought and cold

temperatures during the winter

reduced yields.

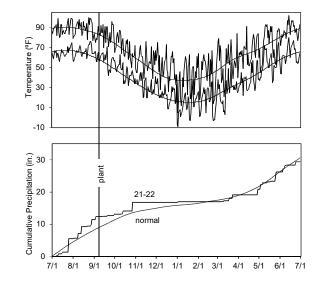


Table 19. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Belleville, KS

				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1054	4242	2648	88	59	97	78	8.9	3.3			13.4	48.6	23.6	37.4
CP320WRR	1460	4214	2837	122	90	88	89	8.3	3.2			12.7	49.1	23.7	37.3
CP1022WC	992	4071	2532	83	60	90	75	8.3	2.8			14.2	43.8	24.5	37.5
CP1066WC	1844	4228	3036	154	96	88	92	9.0	4.5			12.6	45.5	22.1	37.8
Kansas State Univer	sity														
KS4662	1482	4550	3016	124	83	83	83	8.7	4.0			12.0	46.2	22.6	38.8
KS4722	1054			88	74			8.7	3.3			12.6	46.3	23.7	37.0
KS4753	1647			138	83			8.9	3.9			12.6	47.2	23.9	38.2
KSR4767	1225	4179	2702	102	68	92	80	8.3	3.0			12.3	48.0	25.1	36.7
KSR4839S	878			73	70			9.3	3.5			13.0	49.0	22.7	40.5
KSR4848	1113	4063	2588	93	60	90	75	9.0	2.8			13.4	47.1	23.8	37.6
KSR4854S	1005	4169	2587	84	60	96	78	8.7	3.0			13.3	47.7	24.0	38.1
KSUR1212	1210	3196	2203	101	75	68	71	8.7	3.2			13.2	49.0	23.3	38.5
Griffin	1056	4512	2784	88	83	90	87	8.7	4.0			12.6	47.8	23.4	37.5
Riley	1117	4278	2698	93	75	89	82	9.0	3.7			12.8	48.2	23.4	38.4
Surefire	944	4389	2667	79	75	92	84	9.3	3.7			12.8	47.1	23.3	37.8
Wichita	1125	3110	2118	94	91	57	74	8.3	3.8			13.5	49.9	23.4	38.3
Ohlde Seed Farms															
Torrington	1361	3845	2603	114	82	84	83	9.0	3.7			12.7	47.7	23.4	38.4
Star Specialty Seed															
Star 930W	1135	4163	2649	95	85	93	89	9.3	3.5			12.6	48.1	23.3	37.8
Grand Mean	1197	3964			76	84		8.8	3.5			12.9	47.5	23.5	38.0
CV	19	13			18	22		6.3	12.8			5.8	3.7	3.3	2.3
LSD (0.05)	389	851			23	20		ns	8.0			ns	3.0	ns	ns

¹Yields adjusted to 9% moisture content.

Table 20. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Belleville, KS

				Yield (% of					Spring		Plant		Test		
Name	Yi	eld (lb/	a) ¹	test avg.)		(%)		stand			height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	887			78	69			8.3	3.5			11.1	39.0	23.4	38.1
PT264	1606	5090	3348	142	82	98	90	8.7	3.3			9.7	45.8	22.1	39.5
PT271	701	4869	2785	62	53	92	73	8.7	2.3			10.8	38.9	23.3	37.4
PT275	674	4100	2387	59	18	81	50	7.7	1.0			12.4	37.8	24.2	38.2
PT279CL	978			86	22			7.7	1.0			13.2	45.6	23.3	39.1
PT284	1384			122	75			7.3	3.2			12.4	45.9	22.3	39.6
PT293	1747	4670	3208	154	80			8.0	3.3			11.5	43.8	21.2	39.9
PT297	877	4686	2781	77	33	89	61	7.7	1.3			11.8	44.1	22.1	39.7
PT299	722			64	58			7.7	3.0			10.1	38.2	21.0	37.9
PT302	1083			95	33			8.3	1.0			12.1	46.6	22.5	39.1
PT303	1042			92	38			8.3	1.7			11.2	46.6	22.4	40.2
PT305CL	1057			93	47			8.7	2.0			12.3	41.8	24.5	37.8
PT308	714			63	12			9.0	1.0			11.0	42.4	23.1	39.6
PX125CL	627			55	67			8.7	2.8			10.6	42.8	22.8	37.3
PX128	1285	5119	3202	113	73	97	85	8.3	2.8			10.5	44.0	21.8	40.1
PX131	1254	4278	2766	111	67	95	81	8.7	3.2			10.1	40.8	21.7	40.3
PX133	1349			119	60			9.0	3.0			10.2	45.2	22.7	38.9
PX135	1618			143	90			8.7	3.8			9.3	43.6	21.2	40.5
PX139CL	995			88	87			8.0	3.3			9.9	43.4	22.6	37.8
PX140	1665			147	90			8.3	3.8			10.8	48.1	22.6	40.4
PX141	1191			105	80			8.7	3.0			10.2	45.5	24.0	38.7
PX142	1729			152	80			9.0	2.8			11.0	45.0	22.5	40.3
CROPLAN															
CP1077WC	1124	4264	2694	99	52	89	71	8.3	2.0			11.9	41.7	23.3	37.3
KWS-MOMONT															
KWS Sauros CL	1112	4955	3033	98	67	95	81	8.3	2.8			10.2	43.0	24.2	36.6
Rubisco Seeds															
Plurax CL	1235	3916	2576	109	72	93	83	8.3	3.3			10.1	44.3	21.3	39.0
Grand Mean	1141	4589			60	92		8.3	2.6			11.0	43.4	22.6	38.9
CV	23	8			25	7		8.0	21.7			9.5	10.0	2.8	2.0
LSD (0.05)	432	631			16	8		ns	0.9			1.7	ns	1.3	2

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.

Hutchinson, Kansas

Jane Lingenfelser Kansas State University

Planted: 9/22/2021 in 10-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a
Swathed: 6/13/2022

Swatned: 6/13/2022 Harvested: 6/21/2022

Herbicides: 1 qt/a Treflan, 9 oz/a Assure II

Insecticides: None
Fungicide: None
Previous crop: Wheat
Soil test: N/A

Fertilizer: 30-0-0 lb/a N-P-K fertilizer in fall

90-0-0 lb/a N-P-K fertilizer in spring

Soil type: Ost loam Latitude: 37.928725

Elevation: 1540 ft. Longitude: -98.024028

Comments: Yields were below normal due to

drought and low biomass production.

O 0 0 7/1 8/1 9/1 10/1 11/1 12/1 1/1

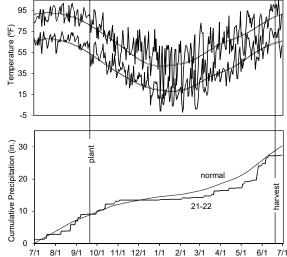


Table 21. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Hutchinson, KS

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	661	2791	1726	93				7.7						25.0	38.2
CP320WRR	841	3067	1954	118				7.7						25.7	36.9
CP1022WC	474	2808	1641	66				7.3						26.1	38.5
CP1066WC	903	3000	1951	126				7.0						24.2	39.5
Kansas State Univer	sity														
KS4662	906	3262	2084	127				7.0						25.0	39.0
KS4722	707			99				8.0						24.5	37.8
KS4753	717			100				8.0						25.6	38.4
KSR4767	511	2875	1693	72				7.3						25.5	34.1
KSR4839S	641			90				7.3						24.4	39.4
KSR4848	589	2747	1668	82				7.7						26.0	37.4
KSR4854S	684	2960	1822	96				7.7						25.0	35.5
KSUR1212	978	2888	1933	137				7.0						24.9	38.4
Griffin	647	3347	1997	91				7.3						24.9	38.2
Riley	771	2956	1864	108				7.3						24.7	39.3
Surefire	720	3531	2126	101				7.7						25.7	36.3
Wichita	792	3014	1903	111				6.3						26.0	37.6
Ohlde Seed Farms															
Torrington	661	3329	1995	93				7.7						25.9	37.6
Star Specialty Seed															
Star 930W	657	2984	1821	92				7.7						24.6	37.3
Grand Mean	715	3011						7.4						25.2	37.7
CV	24	13						7.5						2.6	4.1
LSD (0.05)	ns	ns						ns						ns	ns

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 22. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Hutchinson, KS

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	812			98				6.3						26.0	35.0
PT264	903	3290	2096	109				6.3						26.3	35.3
PT271	932	3841	2387	113				6.0						26.7	35.5
PT275	917	3198	2057	111				5.3						25.5	36.0
PT279CL	690			83				6.7						25.0	36.8
PT284	878			106				6.0						25.8	34.9
PT293	772	2822	1797	93				5.3						26.4	35.5
PT297	738	3113	1925	89				5.7						24.9	38.5
PT299	1130			136				5.3						23.4	39.7
PT302	784			95				6.0						25.2	35.0
PT303	707			85				6.0						26.0	36.4
PT305CL	699			84				5.7						27.0	34.9
PT308	997			120				6.3						25.4	36.6
PX125CL	962			116				5.7						26.2	35.0
PX128	432	3016	1724	52				6.3						26.3	36.1
PX131	611	3422	2017	74				6.7						25.9	36.3
PX133	1152			139				6.0						25.6	37.1
PX135	740			89				6.0						25.6	36.4
PX139CL	1032			125				6.7						27.1	34.9
PX140	894			108				7.0						25.4	38.5
PX141	788			95				6.7						26.9	34.0
PX142	965			117				6.3						25.1	36.8
CROPLAN															
CP1077WC	762	3453	2108	92				7.3						25.8	35.2
KWS-MOMONT															
KWS Sauros CL	407	3288	1847	49				5.7						30.9	32.9
Rubisco Seeds															
Plurax CL	999	3600	2299	121				6.0						24.5	34.5
Grand Mean	828	3352						6.1						25.9	35.9
CV	23	13						12.3						2.8	3.5
LSD (0.05)	314	365						ns						1.5	2.6

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.

Manhattan, Kansas

Michael Stamm Kansas State University

Planted: 9/15/2021 in 10-in. rows Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Swathed: 6/14/2022 Harvested: 6/30/2022

Herbicides: 32 oz/a Treflan, 9 oz/a Assure II

Insecticides: None
Fungicide: None
Previous crop: Wheat
Soil test: N/A

Fertilizer: 30-32-0-30 lb/a N-P-K-S fertilizer in fall

90-0-0-20 lb/a N-P-K-S fertilizer in spring

Soil type: Smolan silt loam Latitude: 39.136669
Elevation: 1064 ft. Longitude: -96.641559
Comments: Yields were negatively affected by

excessive fall growth and severe

drought over winter.

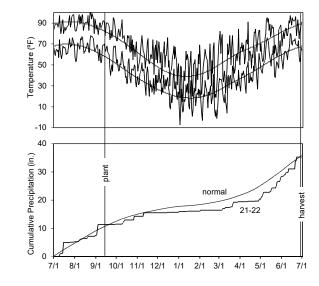


Table 23. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Manhattan, KS

				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant		Test		
Name	Yie	ld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	131	3396	1763	54	97				3.7	115		4.8		24.0	29.1
CP320WRR	170	3598	1884	71	97				3.2	114		4.9		25.9	32.8
CP1022WC	272	3126	1699	113	97				3.3	116		7.9		24.4	31.7
CP1066WC	333	4026	2179	138	99				3.5	115		7.4		24.7	32.5
Kansas State University	sity														
KS4662	218	3646	1932	91	98				3.5	112		5.8		24.9	32.6
KS4722	301			125	99				4.2	112		7.5		23.9	33.2
KS4753	244			102	99				4.0	113		5.9		24.8	30.8
KSR4767	184	3871	2028	77	98				4.2	112		5.5		25.1	31.5
KSR4839S	341			142	97				3.7	113		5.4		24.4	32.0
KSR4848	224	3788	2006	93	93				3.7	113		6.9		24.5	31.5
KSR4854S	267	3476	1872	111	99				3.8	115		6.4		25.0	33.9
KSUR1212	257	3600	1928	107	98				4.0	113		4.8		25.3	31.9
Griffin	234	3659	1946	97	97				3.5	111		6.2		24.5	30.8
Riley	299	3931	2115	124	95				3.7	111		8.9		24.6	31.3
Surefire	260	4009	2134	108	99				4.2	113		5.8		25.4	31.5
Wichita	160	3970	2065	66	97				3.3	113		3.1		26.0	32.0
Ohlde Seed Farms															
Torrington	267	3780	2023	111	96				4.0	112		7.6		24.8	30.7
Star Specialty Seed															
Star 930W	166	3293	1729	69	98				3.7	113		5.1		24.9	30.4
Grand Mean	240	3683			97				3.7	113		6.1		24.8	31.7
CV	29	9			1				12.2	1		33.7		2.6	6.3
LSD (0.05)	ns	361			2				ns	2		ns		1.1	ns

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 24. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Manhattan, KS

				Yield (% of	Wint	er sur	vival	Fall	Spring	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	461			123	99				4.7	111		6.4		25.9	33.3
PT264	359	3902	2130	95	94				3.0	116		8.2		25.0	35.5
PT271	614	4431	2522	163	95				3.3	116		7.7		25.4	35.1
PT275	299	3946	2123	80	75				1.2			8.0		24.4	32.4
PT279CL	279			74	85				2.5	116		6.8		23.4	33.9
PT284	367			98	88				3.3	115		9.8		24.5	34.7
PT293	593	3541	2067	158	88				2.7	115		7.8		24.0	36.5
PT297	309	3348	1829	82	75				1.3	117		9.6		24.8	34.5
PT299	333			88	83				2.7	113		8.7		22.6	35.5
PT302	289			77	85				1.3	117		6.2		22.8	34.8
PT303	381			101	91				2.5	117		9.2		24.2	35.3
PT305CL	323			86	85				1.8			7.6		24.5	34.2
PT308	298			79	83				1.5	117		7.9		24.2	34.5
PX125CL	277			74	97				4.2	113		8.6		24.7	33.6
PX128	440	3175	1807	117	96				3.8	116		7.2		24.5	35.5
PX131	363	3318	1841	97	92				3.2	116		4.8		24.3	37.0
PX133	200			53	88				3.2	115		6.9		24.5	32.4
PX135	300			80	94				3.7	114		7.0		23.6	30.9
PX139CL	533			142	96				3.7	115		6.9		24.9	33.1
PX140	443			118	97				4.3	115		6.6		26.1	35.3
PX141	734			195	94				4.3	115		6.8		25.1	33.2
PX142	223			59	95				3.5	116		8.4		24.9	31.1
CROPLAN															
CP1077WC	445	3797	2121	118	88				3.3	116		6.2		24.5	34.6
KWS-MOMONT															
KWS Sauros CL	296	4372	2334	79	83				2.3	116		6.5		25.9	31.7
Rubisco Seeds															
Plurax CL	246	3642	1944	65	90				3.7	111		5.5		24.3	33.6
Grand Mean	376	3699			90				3.0	115		7.4		24.5	34.0
CV	32	7			7				26.5	1		26.2		2.4	5.2
LSD (0.05)	197	464			10				1.3	3		ns		1.3	ns

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.

Cody Swinehart and David Swinehart

Planted: 9/27/2021 in 10-in. rows Seeding Rate OP: 500,000 seeds/a

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

Swathed: 6/10/2022
Harvested: 6/16/2022
Herbicides: N/A
Insecticides: N/A
Fungicide: N/A
Previous crop: Wheat
Soil test: N/A

Fertilizer: 4-12-0-3-0.3 lb N-P-K-S-Zn fertilizer in the fall

85-0-0-7 lb N-P-K-S fertilizer in the spring

Soil type: Renfrow clay loam Lattitude: 37.415207 Elevation: 1496 ft. Longitude: -97.849154

Comments: The crop yielded well under drought

conditions.

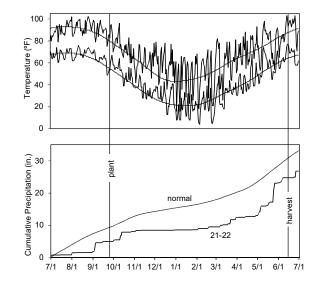


Table 25. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Norwich, KS

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb	/a)	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1634	1991	1813	100				9.3						23.3	39.0
CP320WRR	1613	2461	2037	99				9.7						23.4	38.5
CP1022WC	1653	1949	1801	101				9.0						24.1	41.7
CP1066WC	1633	2150	1892	100				9.0						22.8	41.1
Kansas State Univer	sity														
KS4662	1503	2077	1790	92				9.0						22.2	40.4
KS4722	1679			103				9.7						22.7	40.1
KS4753	1532			94				9.3						25.0	39.6
KSR4767	1479	1905	1692	91				9.3						22.2	40.5
KSR4839S	1651			101				9.7						22.7	41.3
KSR4848	1572	1971	1771	96				9.3						23.5	40.6
KSR4854S	1841	2350	2096	113				9.0						22.2	41.5
KSUR1212	1874	2055	1964	115				9.7						22.9	40.4
Griffin	1732	2111	1921	106				9.0						22.0	41.1
Riley	1508	2238	1873	93				9.7						24.3	39.4
Surefire	1883	2061	1972	116				9.3						24.0	39.7
Wichita	1612	1863	1738	99				9.0						22.6	39.7
Ohlde Seed Farms															
Torrington	1437	2588	2012	88				9.7						23.4	40.5
Star Specialty Seed															
Star 930W	1493	1838	1665	92				9.3						22.3	40.2
Grand Mean	1629	2081						9.3						23.1	40.3
CV	18	12						3.9						3.5	2.3
LSD (0.05)	ns	426						ns						1.7	ns

Table 26. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Norwich, KS

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb	/a)	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	1956			120				9.3						21.5	43.2
PT264	1174	2106	1640	72				8.3						19.4	45.2
PT271	1558	1934	1746	96				9.7						22.1	43.1
PT275	1747	2526	2137	107				9.0						20.9	43.9
PT279CL	1606			99				9.3						21.2	43.6
PT284	1451			89				9.3						20.4	43.7
PT293	1787	2350	2068	110				9.3						19.7	45.0
PT297	1884	2321	2102	116				9.3						20.8	45.2
PT299	1546			95				9.3						18.5	46.7
PT302	1709			105				9.7						20.5	44.5
PT303	1833			113				9.3						20.7	44.9
PT305CL	1732			106				9.0						22.2	43.4
PT308	1785			110				9.7						21.1	44.5
PX125CL	1787			110				9.3						20.3	42.4
PX128	1220	1998	1609	75				9.0						20.8	45.6
PX131	1376	2192	1784	85				9.3						20.2	46.0
PX133	1718			105				9.3						24.0	40.7
PX135	1487			91				8.7						20.2	45.3
PX139CL	1752			108				9.3						23.3	42.4
PX140	1390			85				9.7						19.6	45.3
PX141	1910			117				9.0						21.1	45.2
PX142	1395			86				9.0						17.8	47.1
CROPLAN															
CP1077WC	1595	2309	1952	98				8.7						20.4	43.4
KWS-MOMONT															
KWS Sauros CL	1720	2277	1999	106				9.3						21.7	41.7
Rubisco Seeds															
Plurax CL	1597	2480	2039	98				9.3						20.6	43.0
Grand Mean	1629	2267						9.2						20.8	44.2
CV	16	16						6.4						5.5	2.1
LSD (0.05)	419	ns						ns						2.4	1.9

Clovis, New Mexico

Sangu Angadi and Mallory Nielson New Mexico State University

Planted: 9/7/2021 Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: None Harvested: 7/27/2022

Herbicides: 1.5 pt/a Treflan HFP

Insecticides: 10 oz/a Sivanto, 5 oz/a Vantacor, 0.75 oz/a Transform

Irrigation: 3.90 in. Previous crop: Wheat

Soil test: N=22 ppm, P=12 ppm, K=478 ppm, S=10

ppm, pH=7.9, OM=2%

Fertilizer: 95-40-0-28 lb/a fertilizer in fall

Soil type: Olton clay loam Latitude: 34.599850 Elevation: 4437 ft. Longitude: -103.220032

Comments: Yields were negatively impacted by

high temperatures and drought.

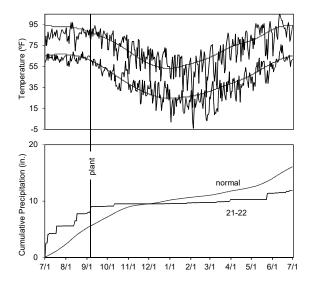


Table 27. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Clovis, NM

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	688	2128	1408	91	94	30	62	6.7	4.7			6.9	50.8	29.3	33.0
CP320WRR	949	2842	1895	125	84	36	60	6.7	4.7			7.0	49.2	27.6	35.2
CP1022WC	327	2377	1352	43	93	42	68	8.0	4.7			8.4	44.3	30.2	33.4
CP1066WC	899	1803	1351	119	91	33	62	8.7	5.0			7.3	51.5	29.4	32.7
Kansas State Univer	sity														
KS4662	904	2478	1691	119	92	32	62	7.7	5.0			6.9	49.4	27.4	35.3
KS4722	803			106	80			8.0	5.0			6.9	47.2	28.6	34.1
KS4753	686			91	78			7.0	4.3			7.2	47.6	29.4	34.7
KSR4767	764	2679	1721	101	80	40	60	7.7	4.7			6.6	48.6	29.3	33.5
KSR4839S	696			92	83			8.3	4.7			6.7	50.4	28.3	35.5
KSR4848	526	2763	1644	69	85	37	61	7.7	4.7			7.8	46.6	29.5	32.5
KSR4854S	754	2659	1706	100	79	38	58	8.7	5.0			7.0	49.4	28.5	34.7
KSUR1212	902	2344	1623	119	77	41	59	7.7	4.7			6.7	50.7	30.3	33.5
Griffin	807	2378	1593	106	74	34	54	8.7	5.0			6.7	48.4	29.8	33.3
Riley	740	2447	1593	98	87	48	67	7.0	5.0			6.8	49.7	30.7	33.3
Surefire	709	2312	1511	94	84	37	60	7.0	4.3			7.3	48.8	30.3	32.9
Wichita	1017	2071	1544	134	98	36	67	7.0	5.0			6.6	49.0	30.4	33.3
Ohlde Seed Farms															
Torrington	568	2115	1342	75	74	44	59	8.7	4.7			7.0	49.0	30.6	32.4
Star Specialty Seed															
Star 930W	896	2246	1571	118	89	34	62	7.3	5.0			6.6	51.7	28.4	34.9
Grand Mean	750	2387			85	38		7.7	4.8					29.3	33.8
CV		23			16	27		17.8	10.1					2.5	2.3
LSD (0.05)		ns			ns	ns		ns	ns					1.6	1.6

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 28. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Clovis, NM

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb	/a)	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	884			105	93			7.3	4.3			7.0	49.3	29.4	33.7
PT264	638	2114	1376	76	79	57	68	9.0	5.0			7.2	48.6	30.4	32.5
PT271	864	2198	1531	103	83	50	66	9.3	5.0			7.3	50.7	29.9	33.7
PT275	827	1963	1395	99	94	50	72	7.3	5.0			6.9	50.2	30.1	31.9
PT279CL	1016			121	95			7.3	4.3			6.9	49.9	27.8	35.5
PT284	709			84	94			7.3	4.3			7.4	46.3	28.4	34.3
PT293	821	2457	1639	98	75	45	60	8.0	4.7			8.0	48.3	29.8	33.5
PT297	919	1804	1361	109	91	59	75	8.0	4.7			7.1	50.0	28.3	36.1
PT299	870			104	93			7.0	4.7			7.3	49.3	27.0	37.2
PT302	1167			139	100			6.7	4.3			7.2	49.8	27.8	36.5
PT303	1131			135	89			8.0	4.7			6.9	50.9	28.6	35.9
PT305CL	685			82	80			8.3	5.0			7.6	48.0	30.9	32.2
PT308	1011			120	84			9.0	5.0			7.2	51.1	28.8	34.3
PX125CL	706			84	97			7.7	5.0			7.1	49.6	29.1	33.2
PX128	540	1938	1239	64	82	56	69	8.3	4.7			7.4	48.8	30.1	33.9
PX131	565	2362	1463	67	93	58	76	7.7	4.3			7.3	42.7	28.7	35.4
PX133	857			102	80			9.7	5.0			7.2	49.8	29.8	33.6
PX135	773			92	98			7.7	4.3			7.0	46.9	28.8	35.0
PX139CL	853			102	88			7.3	4.7			7.0	50.5	30.5	33.1
PX140	1294			154	97			7.3	4.7			7.3	53.2	28.5	35.5
PX141	975			116	81			8.0	5.0			8.0	50.0	30.9	32.0
PX142	1036			123	88			8.3	5.0			7.3	51.1	30.1	34.1
CROPLAN															
CP1077WC	685	2826	1755	82	89	55	72	8.3	5.0			8.1	45.4	29.5	33.7
KWS-MOMONT															
KWS Sauros CL	672	2689	1680	80	100	48	74	5.7	3.7			7.3	47.2	30.8	31.4
Rubisco Seeds															
Plurax CL	492	2322	1407	59	86	60	73	7.7	5.0			7.6	45.2	29.9	31.6
Grand Mean	840	2366			89	54		7.9	4.7			7.3	48.9	29.4	34.0
CV	20	8			12	12		10.6	9.2			9.2	6.5	1.9	2.6
LSD (0.05)	281	319			11	ns		1.4	0.7			ns	ns	1.1	1.8

Perkins, Oklahoma

Josh Lofton Oklahoma State University

Seeding Rate OP: 500,000 seeds/a

Seeding Rate Hybrid: 300,000 seeds/a

Comments:

Dry winter conditions negatively

impacted yields.

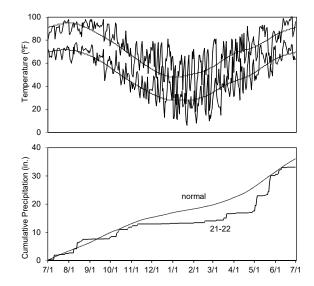


Table 29. Results for the 2022 National Winter Canola Variety Trial, open-pollinated cultivars, at Perkins, OK

				Yield (% of	Wint	er sur	vival	Fall	Fall	50%	Plant		Test		
Name	Yie	eld (lb/	a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	1253	921	1087	96								13.2	45.5	25.5	37.2
CP320WRR	1202	762	982	92								11.4	45.2	25.8	36.4
CP1022WC	1130	757	943	86								12.8	43.0	25.8	36.5
CP1066WC	1750	446	1098	134								12.5	52.3	24.7	38.4
Kansas State Univer	sity														
KS4662	1388	935	1162	106								12.7	44.3	23.8	39.0
KS4722	1465			112								14.8	46.1	24.8	38.2
KS4753	1442			110								13.2	47.0	25.0	38.3
KSR4767	1147	1258	1202	88								11.5	43.8	25.1	36.8
KSR4839S	1137			87								11.3	45.4	23.0	40.2
KSR4848	1273	811	1042	97								14.1	46.8	25.5	36.8
KSR4854S	1265	825	1045	97								12.0	48.8	25.6	37.1
KSUR1212	1338	867	1103	102								13.9	46.8	25.5	37.7
Griffin	1238	1338	1288	95								12.5	44.8	24.6	38.1
Riley	1340	718	1029	102								13.0	43.2	25.2	37.7
Surefire	1380	1052	1216	105								12.7	49.9	25.9	36.3
Wichita	1405	720	1063	107								14.0	48.9	26.1	37.0
Ohlde Seed Farms															
Torrington	1347	1078	1212	103								13.7	47.1	25.6	37.2
Star Specialty Seed															
Star 930W	1070	702	886	82								10.1	45.7	25.1	37.0
Grand Mean	1309	844										12.7	46.4	25.1	37.5
CV	13	23										11.2	8.4	3.1	2.4
LSD (0.05)	286	325										2.4	6.4	ns	1.9

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 30. Results for the 2022 National Winter Canola Variety Trial, hybrid cultivars, at Perkins, OK

				Yield (% of	Wint	er su	vival	Fall	Fall	50%	Plant		Test		
Name	Yi	eld (lb.	/a) ¹	test avg.)		(%)		stand	vigor	bloom	height	Moisture	weight	Protein	Oil
		2021		2022	2022	2021	2-yr.	(0-10)	(1-5)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience															
44D06	1605			111								13.1	48.3	22.1	40.1
PT264	1943	1170	1557	134								13.9	47.6	23.0	40.4
PT271	1415	1771	1593	97								14.6	48.3	21.7	40.7
PT275	1710	923	1317	118								16.7	49.0	22.6	40.9
PT279CL	1418			98								14.6	46.7	21.6	40.7
PT284	1467			101								12.8	49.7	22.1	39.6
PT293	1693	1059	1376	117								12.9	49.6	22.8	40.5
PT297	1088	1581	1335	75								12.0	47.0	22.0	41.7
PT299	1442			99								12.6	48.6	21.1	42.1
PT302	1242			86								13.9	44.5	21.2	41.1
PT303	1013			70								11.8	40.8	22.5	41.4
PT305CL	1437			99								13.7	49.0	23.7	38.8
PT308	1193			82								13.9	43.2	22.3	41.5
PX125CL	1445			100								13.7	44.6	23.7	38.2
PX128	1528	1186	1357	105								13.4	49.2	22.7	42.3
PX131	1278	818	1048	88								11.4	48.1	21.6	42.3
PX133	1700			117								12.9	49.4	21.8	40.5
PX135	1590			110								13.2	51.3	21.7	42.5
PX139CL	1307			90								11.7	46.9	23.2	37.6
PX140	1572			108								14.8	50.2	22.6	41.9
PX141	1628			112								14.6	47.7	22.0	42.1
PX142	1420			98								12.5	47.5	22.8	41.7
CROPLAN															
CP1077WC	1450	1268	1359	100								11.4	46.9	21.9	37.6
KWS-MOMONT															
KWS Sauros CL	1223	1139	1181	84								11.6	46.0	25.3	36.0
Rubisco Seeds															
Plurax CL	1482	566	1024	102								12.7	49.4	21.8	39.3
Grand Mean	1452	1070										13.2	47.6	22.4	40.5
CV	15	41										13.7	7.4	3.1	2.7
LSD (0.05)	354	615										ns	ns	1.4	2.3
- (/															

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.

Bozeman, Montana

Perry Miller and Sam Koeshall

Land Resources and Environmental Science

Planted: 7/19/2021 Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: None
Harvested: N/A
Herbicides: None
Insecticides: None

Irrigation: 1 in. prior to planting

Previous crop: N/A Soil test: N/A

Fertilizer: 100-0-0 lb/a N-P-K fertilizer in fall

Soil type: Amsterdam silt loam Latitude: 45.666667
Elevation: 4775 ft. Longitude: N/A
Comments: The varieties recovered remarkably well and compensated for low plant stands.

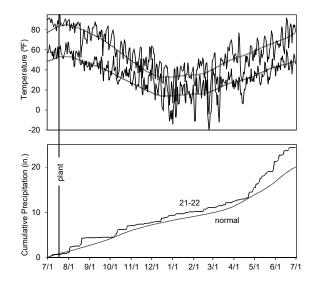


Table 31. Results for the 2022 Roundup Ready Variety Trial, at Bozeman, MT

				Yield (% of	Wint	er su	vival	Spring	Spring		Test		
Name	Yie	eld (lb/	a)	test avg.)		(%)		vigor	stand	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(0-5)	(plants/m ²)	(%)	(lb/bu)	(%)	(%)
CROPLAN													
CP225WRR	1330			76				1.1	4.4			26.4	37.5
CP320WRR	1237			71				1.4	4.1			26.1	37.1
Kansas State Un	iversity												
KSR4765	1971			113				3.5	5.6			25.0	37.6
KSR4767	1977			113				3.6	7.3			26.0	37.9
KSR4777	1779			102				2.3	4.1			26.2	37.6
KSR4837	1803			103				2.8	4.6			26.3	37.3
KSR4838	1789			103				1.5	4.8			26.3	37.1
KSR4839S	1584			91				1.8	3.4			24.9	39.5
KSR4843S	1317			75				1.4	2.8			26.6	36.5
KSR4844S	1230			70				1.1	3.0			27.2	36.0
KSR4846	1639			94				1.8	3.4			26.2	37.7
KSR4848	1463			84				1.6	3.4			26.8	36.9
KSR4849	1228			70				1.4	1.8			26.4	37.2
KSR4850	1863			107				3.0	5.3			26.9	36.1
KSR4852S	2035			117				2.8	6.7			25.2	40.5
KSR4853S	2004			115				3.8	6.0			26.5	37.0
KSR4854S	1810			104				3.8	5.3			25.0	39.6
KSR4925	2267			130				4.8	10.1			25.4	39.8
KSR4926S	2034			117				3.0	6.6			25.4	39.7
KSR4927S	1985			114				2.5	5.0			24.7	38.8
KSR4928	2301			132				5.0	9.2			25.3	38.8
Mean	1745							2.7	5.2			25.9	37.9
CV	17											2.4	2.1
LSD (0.05)	375											1.3	1.6

Creston, Montana

Clint Beiermann Montana State University

Planted: 8/23/2021 Seeding Rate OP: 500,000 seeds/a Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: None
Harvested: 8/16/2022
Herbicides: None
Insecticides: Lambda-cy
Irrigation: N/A
Previous crop: Fallow

Soil test: NO_3 =167 lb/a, P=12 lb/a, K=143 lb/a, S=72 lb/a Fertilizer: 100-42-37-20 lb/a N-P-K-S fertilizer in spring

Soil type: Silty clay loam Latitude: 48.187028
Elevation: 2950 ft. Longitude: -114.140861
Comments: Consistent yields and high oil content

Consistent yields and high C

measured at this site.

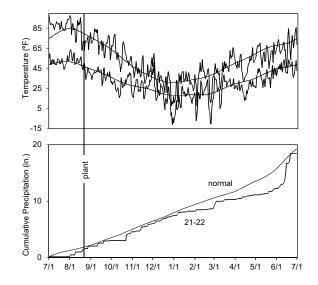


Table 32. Results for the 2022 Roundup Ready Variety Trial, at Creston, MT

					Yield (% of	Wint	er sur	vival	50%		Plant		Test		
Name	Type ¹	Yie	ld (lb/	a)	test avg.)		(%)		bloom	Lodging	height	Moisture	weight	Protein	Oil
		2022	2021	2-yr.	2022	2022	2021	2-yr.	(d)	(%)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN															
CP225WRR	OP	2267	4213	3240	96	85	94	89	146	1.7	45	5.8	50.7	20.4	42.6
CP320WRR	OP	2390	4399	3394	101	86	92	89	146	0.0	45	5.6	51.1	20.1	43.7
Kansas State Univ	ersity														
KSR4767	OP	2382	4177	3279	101	77	94	86	146	0.0	51	5.7	51.0	20.9	43.2
KSR4837	OP	2334			99	75			147	0.0	48	5.9	51.1	20.7	43.2
KSR4839S	OP	2003			85	82			146	1.7	52	5.4	50.6	21.3	42.1
KSR4846	OP	2232			94	76			146	3.3	45	5.6	50.6	20.6	42.9
KSR4848	OP	2353	3947	3150	99	81	89	85	146	1.7	50	5.7	50.8	20.4	42.8
KSR4850	OP	2193			93	85			146	1.7	47	5.5	51.5	20.3	43.7
KSR4852S	OP	2320			98	83			146	0.0	46	5.6	50.8	19.3	43.5
KSR4854S	OP	2473	4046	3260	105	88	92	90	146	1.7	49	5.6	50.5	20.8	43.8
KSR4925	OP	2428			103	75			149	0.0	46	5.6	50.6	20.9	43.3
KSR4926S	OP	2282			96	77			146	1.7	45	5.9	50.4	21.3	41.9
KSR4927S	OP	2442			103	80			146	1.7	46	5.9	50.3	21.7	42.3
KSR4928	OP	2322			98	79			148	0.0	55	5.8	50.6	20.0	43.9
KSR4966S	OP	2238			95	76			146	5.3	49	5.7	50.0	19.7	43.2
KSR4967	OP	2102			89	73			146	0.0	50	5.4	50.7	20.6	44.6
KSU2	Н	2679			113	70			146	1.7	50	5.6	50.7	21.7	43.0
KSU3	Н	2806			119	74			146	15.0	50	5.6	50.6	20.3	43.2
KSU4	Н	2590			109	67			146	0.0	50	5.7	50.4	21.5	42.0
KSU7D	Н	2476			105	77			144	0.0	42	5.8	51.4	20.8	43.5
Mean		2366	4202			78	92		146	1.9	48	5.7	50.7	20.7	43.1
CV		7	5			6	2		1	224.1	4	3.3	0.5	6.8	3.3
LSD (0.05)		287	292			8	3		1	6.9	ns	ns	0.4	ns	ns

¹Type: H=hybrid, OP=open pollinated

Moccasin, Montana

Patrick Carr and Simon Fordyce Montana State University

Planted: 8/4/2021 in 12-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: None Harvested: 8/18/2022

Herbicides: 0.88 oz/a quizalofop, 0.56 lb ai/a Insecticides: 0.025 lb ai/a cypermethrin

Irrigation: None Previous crop: Winter wheat

Soil test: N/A

Fertilizer: 10-15-10-5 lb/a N-P-K-S fertilizer in fall

70-14-10-14 lb/a N-P-K-S fertilizer in spring

Soil type: Danvers-Judith clay Latitude: 47.062988

loam Longitude: -109.965559

Elevation: 4250 ft.

Comments: Canola yielded well following a

very dry 2021.

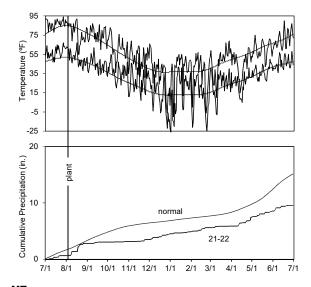


Table 33. Results for the 2022 Roundup Ready Variety Trial, at Moccasin, MT

				Yield (% of	Wint	er sur	vival	50%		Plant		Test		
Name	Yie	eld (lb/a	a)	test avg.)		(%)		bloom	Maturity	height	Moisture	weight	Protein	Oil
	2022	2021	2-yr.	2022	2022	2021	2-yr.	(d)	(d)	(in.)	(%)	(lb/bu)	(%)	(%)
CROPLAN														
CP225WRR	1892			103	79			147	200	42	4.6	52.2	24.8	37.9
CP320WRR	2170			119	80			147	200	42	4.8	52.6	22.8	39.5
Kansas State Univer	sity													
KSR4765	1893			103	87			149	200	47	4.7	52.4	23.9	38.1
KSR4767	1844			101	98			148	200	48	4.7	52.4	25.0	38.5
KSR4777	1906			104	65			146	200	45	4.6	52.3	24.3	38.7
KSR4837	1718			94	82			148	200	48	4.8	52.7	23.2	38.8
KSR4838	1865			102	75			146	200	42	4.8	52.3	22.7	38.5
KSR4839S	1742			95	82			148	199	48	4.6	52.6	22.7	40.7
KSR4843S	1830			100	82			149	201	50	4.8	52.5	24.8	38.9
KSR4844S	1820			99	80			146	201	48	4.7	52.4	23.6	39.8
KSR4846	1802			98	85			147	199	46	4.6	52.7	24.6	37.7
KSR4848	1863			102	92			149	201	46	4.7	52.4	23.6	39.9
KSR4849	1610			88	92			149	201	45	4.8	51.6	23.6	39.6
KSR4850	1760			96	86			148	199	45	4.7	53.0	23.8	37.6
KSR4852S	1798			98	93			150	201	46	4.9	52.4	24.2	39.6
KSR4853S	1676			92	93			147	200	47	4.8	52.3	24.1	38.8
KSR4854S	1797			98	96			146	199	46	4.7	52.2	25.2	38.5
KSR4925	1823			100	66			149	202	45	4.8	51.9	23.1	40.6
KSR4926S	1892			103	69			149	199	45	4.7	52.5	24.0	39.5
KSR4927S	1851			101	67			149	200	46	4.8	52.2	23.9	39.4
KSR4928	1878			103	94			149	200	47	4.8	52.2	22.6	39.5
Mean	1830				83			148	200	46	4.7	52.4	23.8	39.1
CV	11				17			1	0	5	2.2	0.4	4.1	2.1
LSD (0.05)	ns				20			2	1	4	0.1	0.3	ns	1.7

Alburgh, Vermont

Heather Darby University of Vermont

Planted: 9/2/2021 in 6-in. rows
Seeding Rate OP: 500,000 seeds/a
Seeding Rate Hybrid: 300,000 seeds/a

Desiccant: None
Harvested: 7/22/2022
Herbicides: None
Insecticides: None
Fungicide: None
Previous crop: Winter barley

Soil test: P=16 ppm, K=104 ppm, pH=7.2

Fertilizer: 84-0-0-96 lb/a N-P-K-S fertilizer in spring

Soil type: Benson rocky silt loam Latitude: 44.999983
Elevation: 125 ft. Longitude: -73.296330

Comments: Yield variability was extremely high.

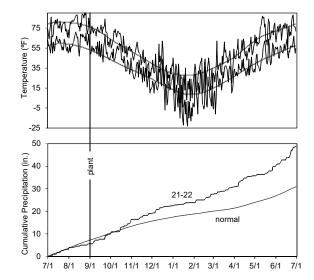


Table 34. Results for the 2022 National Winter Canola Variety Trial at Alburgh, VT

					Yield (% of	Wint	er sur	vival	Fall	50%	Plant			Test		
Name	Type ¹	Yie	ld (lb	/a) ²	test avg.)		(%)			bloom	height	Lodging	Moisture	weight	Protein	Oil
		2022	2021	2-yr.	2022	2022	2021	2-yr.	(1-5)	(d)	(in.)	(%)	(%)	(lb/bu)	(%)	(%)
Corteva Agriscience)															
PT264	Н	852			55	40			3.3	138	42	3.3	8.2	45.5	14.3	48.0
PT293	Н	1737			113	93			5.0	136	50	1.7	10.2	41.6	16.5	46.2
PT297	Н	897			58	75			4.3	136	50	3.3	9.4	43.8	14.3	48.2
PX128	Н	2319			150	72			3.7	137	41	0.0	8.5	44.4	13.4	47.8
PX131	Н	320			21	68			3.0	136	41	0.0	10.2	40.4	13.5	48.8
CROPLAN																
CP1066WC	OP	1482	3300	2391	96	77			4.3	136	48	1.7	11.1	44.6	17.7	45.0
Kansas State Unive	rsity															
KS4662	OP	1358	3265	2311	88	78	75	77	3.0	138	45	0.0	9.8	44.2	18.1	45.4
KS4722	OP	1037			67	68			3.0	137	48	1.7	10.8	44.4	15.6	45.4
KS4753	OP	178			12	80			3.0	137	47	1.7	8.7	43.2	17.2	43.9
Griffin	OP	1093			71	82			3.7	136	42	0.0	12.2	44.1	17.1	45.5
Riley	OP	1389	3444	2416	90	67	60	63	3.0	137	42	0.0	12.4	46.5	16.5	44.7
Surefire	OP		3052			85	58	72	3.7	137	44	0.0	4.9		17.2	45.2
KWS-MOMONT																
KWS Sauros CL	Н	1671	1213	1442	108	57			4.0	137	41	3.3	9.2	42.6	20.3	42.8
Ohlde Seed Farms																
Torrington	OP	1119	3529	2324	73	92	62	77	4.3	137	46	5.0	10.0	45.2	17.1	45.7
Rubisco Seeds																
Plurax CL	Н	602	2776	1689	39	88	68	78	4.0	136	41	0.0	10.4	44.6	13.4	48.3
Mean		1544	2726			75	54		3.7	137	45	1.4	10.5	44.7	16.2	46.2
CV			17			33	28		21.7	1	11	168.3			15.6	4.5
LSD (0.05)			792			ns	26			ns	ns	ns			ns	ns

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.

Table 35. Seed sources for entries in the 2021-2022 National Winter Canola Variety Trial

			Release		-			Release	
Source	Type ¹	Trait ²	Date	Maturity ³	Source	Type ¹	Trait ²	Date	Maturity ³
Corteva Agris Andrew Hopkin		okins@cortev	a.com)		Kansas State Uni Michael J. Stamm			g Prograr	n
PT264	Н			M	KS4662	OP			М
PT271	Н			M	KS4722	OP			M
PT275	Н			M	KS4753	OP			F
PT279CL	Н	CL		M	KSR4767	OP	RR		M
PT284	Н			M	KSR4839S	OP	RR/SURT		M
PT293	Н			M	KSR4848	OP	RR		M
PT297	Н			M	KSR4854S	OP	RR/SURT		M
PT299	Н			M	KSUR1212	OP	SU		M
PT302	Н			M	Griffin	OP		2011	M
PT303	Н			M	Riley	OP		2010	M
PT305CL	Н	CL		M	Surefire	OP	SU	2017	MF
PT308	Н			M	Wichita	OP		1999	M
PX125CL	Н	CL, SD		M					
PX128	Н	SD		M	KWS-MOMONT				
PX131	Н	SD		M	Marie-Aude Vanhe	ersecke (m	arie-aude.vanl	hersecke@	kws.com)
PX133	Н	SD		М					
PX135	Н	SD		M	KWS Sauros CL	Н	CL		M
PX139CL	Н	CL, SD		M					
PX140	Н	SD		M	Ohlde Seed Farm	ıs			
PX141	Н	SD		M	Shane Ohlde (sha	ne@ohldes	seed.com)		
PX142	Н	SD		M	,	•	,		
44D06	Н			М	Torrington	OP		2016	M
CROPLAN Mick Miller (MN	∕liller5@lando	akes com)			Rubisco Seeds L Claire Caldbeck (in		coseeds.com)		
TVIIOR TVIIIOT (IVIII	/illicro@idildo	akos.oomj			Plurax CL	Н	CL	2018	M
CP225WRR	OP	RR/SURT	2010	M					
CP320WRR	OP	RR	2017	E	Star Specialty Se	eds, Inc.			
CP1022WC	OP	G2FLEX	2020	F	Jim Johnson (jimj_	_star@hotn	nail.com)		
CP1066WC	OP		2020	F		-	•		
CP1077WC	Н			M	Star 930W	OP	RR	2013	ME

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.

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

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