



Current Report

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2014-2015 Winter Canola Performance Trials

J. Lofton
Assistant Professor

J. Bushong
Extension Associate

W. Vaughan
Sr. Agriculturist

Production Season

The 2014-2015 canola production season in Oklahoma was average to good, but much improved over the previous two seasons. Throughout the season, much of the state's crop could be considered average to poor, this was mainly due to dry conditions and cold winter temperatures. Rains during the late-winter and early-spring, however, turned much of the crop around, and yields ranged from average to good. At planting, dry conditions significantly delayed planting for many parts of the state and required many growers, in particularly dry conditions, to "dust in" the crop. Dry conditions continued dry conditions paired with early cool temperatures resulted in some of the state experiencing stand loss or winter kill, similar to what was experienced during the 2013-2014 season. Dry conditions continued into early spring but plentiful moisture during the early to late reproductive stages significantly improved the crop. Moisture quickly turned from a benefit to a challenge, as harvest was delayed in many locations around the state.

Pest problems

Seed treatments provided adequate control for all aphid species across the state. However, early season Lepidoptera (Diamondback moth larva, army cutworms, etc.) were held off until spring through the use of fall applied insecticide, typically a pyrethroid.

In the spring, prior to reproductive growth, aphid populations were low and only built in populations in isolated pockets. During reproductive stages, areas of sub-threshold or low threshold insect populations, which delayed insecticide application. The late-season rainfall not only helped the crop but also limited elevated levels of false cinch bugs.

Weed pressures were low to moderate going into dormancy. Early fall herbicide applications prevented competition and allowed the canola stands to properly establish. Winter annual grasses were controlled using glyphosate, clethodim, and quizalofop. Mustards and other Brassica weeds were often an issue in conventional canola fields. Henbit and marestail are starting to be a concern in glyphosate tolerant canola fields. Weeds were more prevalent in fields with marginal canola stands and became an issue at harvest due to the late spring rains. To manage harvest, producers with late weed infestations relied on terminating the crop with either a desiccant or a swather.

Interpreting the data

Details of establishment and management of each test are noted above the production tables. Least significant differences (LSD) for yield and oil content are listed at the bottom of all yield and summary tables. Differences between cultivars are significantly different only if they are equal to or greater than the LSD value. If a given cultivar out yields another cultivar by as much or more than the LSD value, then we are 95% sure the yield difference is due to actual differences, with only 5% probability that the differences are due to chance alone. For example, if cultivar X yielded 500 lb/acre more than cultivar Y, then it is significantly different only if the LSD is 500 or less. If the LSD is 501 lbs/acre or greater, then we are less confident that cultivar X outperformed cultivar Y under the conditions of the test.

The results of these tests should be representative of what would occur throughout the state but are more indicative under the environmental conditions and management practices similar to those highlighted at each location. This is due to the amount of influence that soil type, winter conditions, soil moisture, disease, and insects can play on yield.

Methods

Test locations for conventional cultivars were Pond Creek, Miami, El Reno, Fort Cobb, and Kingfisher. Glyphosate-resistant cultivars were tested at the same locations with the addition of a sixth site at Dacoma.

Plots were 5 feet wide by 25 feet long and seeded at the rate of 4 lbs/ac. Soil characteristics and fertilizer applied is indicated for each location on the following pages. All pest management practices were carried out in accordance with Oklahoma State University Cooperative Extension Recommendations. Entire plots were either swathed and harvested or direct harvested, as indicated by the individual location description.

Stands were rated on a 1-5 scale, with 1 indicating a poor stand and 5 indicating a good stand. Poor stand ratings would indicate high amount of winter kills and poor spring stands, while good stands would be a result of lower winter kill and therefore better spring stands.

Additional Information

A copy of this publication as well as additional variety information and current recommendations for winter canola management in the southern Great Plains can be found on: www.canola.okstate.edu

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Cooperating Producer:

Jeff Scott- Pond Creek
 Jay and Lee Leeper- Dacoma
 Brent Rendal- Miami
 Jerry Lingo- El Reno
 Rodney Mueggenborg- Kingfisher

Cooperating County Educators:

Kassie Junghanns- Grant
 Greg Highfill- Woods
 Jeff Parmley- Ottawa
 Zack Meyer- Kingfisher
 David Nowlin- Caddo
 Kyle Worthington- Canadian

Cooperating Station Superintendents:

Erich Wehrenberg, Agronomy Research Station, Stillwater, OK
 Bobby Weindermaier, Caddo Research Station, Fort Cobb, OK

Table 1. Overview of cultivars used in the 2014-2015 Oklahoma winter canola tests.

<i>Company</i>	<i>Entry</i>	<i>Hybrid or Open Pollinated</i>	<i>Herbicide Resistant</i>	<i>SU Residual Tolerant</i>
Kansas State University	Riley	OP	N	N
	Sumner	OP	N	Y
	Wichita	OP	N	N
	KSUR 21	OP	N	Y
	KS 4506	OP	N	N
	KSR 07363	OP	Glyphosate	N
	KSR 4652	OP	Glyphosate	N
	KSR 4653S	OP	Glyphosate	Y
Photosyntech	HeKip	HYB	N	N
Limagrain	Alabaster	HYB	N	N
	Albatros	HYB	N	N
	Artoga	HYB	N	N
	Atzeno	HYB	N	N
	Arsenal	HYB	N	N
Rubisco	Mercedes	HYB	N	N
	Dimension	HYB	N	N
	Inspiration	HYB	N	N
	Edimax CL	HYB	Clearfield	N
Dupont Pioneer	PX 112	HYB	N	
	PX 117	HYB	N	
	EXP 1301	HYB	N	
	EXP 1302	HYB	N	
	46W94	HYB	Glyphosate	
Syngenta	NK Petrol	HYB	N	
	NK Technic	HYB	N	
Star Specialty Seed	Star 915W	OP	Glyphosate	
Dekalb-Monsanto	DKW 41-10	OP	Glyphosate	N
	DKW 44-10	OP	Glyphosate	N
	DKW 45-25	OP	Glyphosate	Y
	DKW 46-15	OP	Glyphosate	Y
	DKW 47-15	OP	Glyphosate	Y
Croplan Genetics	HC 115W	OP	Glyphosate	Y
	HC 125W	OP	Glyphosate	Y
	EXP 1405	HYB	Glyphosate	N

Table 2. Yield overview of conventional cultivars for all locations.

	Pond Creek		Miami		El Reno		Fort Cobb		Kingfisher	
	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield
Riley	36 b	24 bc	44 d-h	41 a-d	37 def	28 ab	41 fg	44 efg	40 d	46 abc
Sumner	37 ab	27 bc	43 hi	25 f	39 a-d	33 ab	41 efg	46 d-g	39 d	38 bc
Wichita	37 ab	40 a	44 f-i	42 a-d	38 b-f	25 ab	41 efg	62 ab	39 d	34 c
KSUR21	37 ab	27 bc	44 f-i	44 a-d	37 def	23 b	41 fg	59 a-d	39 d	41 bc
KS 4506	36 b	20 c	44 e-i	42 a-d	37 c-f	22 b	41 g	57 a-e	40 d	36 bc
Hekip	37 ab	26 bc	44 c-g	41 bcd	39 abc	31 ab	43 abc	54 a-f	40 d	46 abc
Alabaster	38 a	33 ab	45 c-f	48 abc	40 a	37 a	42 bcd	60 abc	41 cd	40 bc
Albatros	37 ab	28 bc	46 ab	45 a-d	38 a-f	28 ab	42 cde	43 fg	40 d	49 abc
Artoga	38 ab	28 bc	45 c-g	48 abc	37 ef	26 ab	42 c-f	52 a-f	40 d	58 a
Atzeno	36 ab	25 bc	45 b-e	38 cde	39 a-f	30 ab	41 efg	62 ab	41 bcd	44 abc
Arsenal	37 ab	34 ab	45 c-f	47 a-d	37 c-f	24 b	42 cde	45 efg	40 d	36 bc
Mercedes	37 ab	30 abc	46 bcd	37 de	39 a-f	23 b	43 ab	55 a-f	43 abc	48 abc
Dimension	37 ab	25 bc	46 bc	31 ef	39 a-e	31 ab	41 efg	36 g	41 bcd	35 c
Inspiration	37 ab	23 bc	45 c-g	42 a-d	37 f	23 b	42 d-g	53 a-f	41 bcd	42 abc
Edimax	37 ab	27 bc	44 f-i	48 abc	38 b-f	27 ab	42 d-g	51 a-f	40 d	47 abc
PX 112	37 ab	27 bc	45 b-f	49 ab	39 ab	34 ab	43 a-d	62 ab	41 bcd	52 ab
PX 117	37 ab	23 bc	46 ab	44 a-d	39 abc	27 ab	43 ab	57 a-e	43 abc	51 abc
EXP 1301	37 ab	27 bc	47 a	48 abc	38 b-f	29 ab	43 a	54 a-f	44 a	48 abc
EXP 1302	37 ab	28 bc	47 a	52 a	39 a-f	32 ab	43 ab	47 c-g	43 ab	47 abc
NK Petrol	37 ab	24 bc	43 i	45 a-d	39 a-e	32 ab	41 g	49 b-g	40 d	44 abc
NK Technic	37 ab	23 bc	43 ghi	51 ab	38 b-f	22 b	41 efg	64 a	42 a-d	43 abc
Mean	37	27	45	43	38	28	42	53	41	44
LSD (P=.05)	1	10	1	9	2	11	1	11	2	14
CV	3	28	2	16	3	24	2	15	4	24

Means followed by the same letter within a column are not statistically different at $\alpha = 0.05$

Table 3. Yield overview of glyphosate-resistant cultivars for all locations.

	Pond Creek		Miami		El Reno		Fort Cobb		Kingfisher		
	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield	Oil Content	Yield	
	%	Bu/A	%	Bu/A	%	Bu/A	%	Bu/A	%	Bu/A	
KSR 07363	38 a	40 ab	43 ef	37 a	14 a	40 bc	45 ab	40 a	38 c	21 b	29 a-d
KSR 4652	37 a	35 ab	43 ef	37 a	16 a	41 ab	47 ab	39 a	38 bc	9 de	32 ab
KSR 4653S	37 a	36 ab	44 cd	37 a	16 a	41 a	47 ab	40 a	39 abc	17 bc	21 b-e
Star 915W	37 a	30 b	43 de	37 a	18 a	40 ab	49 ab	41 a	39 abc	11 de	18 c-f
DKW 41-10	37 a	33 ab	42 f	37 a	19 a	39 c	45 ab	41 a	38 cd	8 e	28 a-d
DKW 44-10	37 a	37 ab	43 ef	37 a	22 a	40 bc	58 a	40 a	38 cd	34 a	28 a-d
DKW 45-25	38 a	38 ab	42 f	37 a	22 a	40 ab	57 ab	40 a	38 bc	8 de	28 a-d
DKW 46-15	37 a	33 ab	45 bc	36 a	15 a	41 ab	45 ab	40 a	40 a	16 bc	35 a
DKW 47-15	37 a	37 ab	43 ef	37 a	20 a	41 ab	44 b	40 a	38 c	9 de	16 def
HC 115W	37 a	31 b	44 c	36 a	16 a	41 ab	55 ab	40 a	40 ab	17 bc	31 abc
HC 125W	37 a	37 ab	44 cd	37 a	17 a	41 ab	50 ab	39 a	39 abc	13 cd	14 efg
EXP. 14-05	37 a	35 ab	46 a	36 a	14 a	41 a	47 ab	41 a	36 e	9 de	3 g
P 46W94	37 a	43 a	45 ab	37 a	17 a	41 a	47 ab	40 a	36 de	8 de	5 fg
Mean	37	36	44	37	18	40	49	40	38	14	22
LSD (P=0.05)	1	9	1	1	7	1	12	2	1	5	12
CV	2	16	1	3	32	1	17	3	3	28	37

Means followed by the same letter within a column are not statistically different at $\alpha = 0.05$

Table 4. Pond Creek location for conventional cultivars for the 2014-2015 season.

Cooperator: Jeff Scott
 Previous Crop: Wheat
 Planting Date: September 30th
 Soil Series: Bethany Silt Loam

Tillage: Minimum Tillage
 Harvest Type: Swathed
 Harvest Date: June 11th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
Riley	Kansas State University	3.0	1,185	36.1
Sumner	Kansas State University	2.6	1,335	37.0
Wichita	Kansas State University	2.6	1,990	36.8
KSUR21	Kansas State University	2.8	1,330	36.9
KS 4506	Kansas State University	2.8	980	36.1
Hekip	Photosyntech	1.4	1,285	36.8
Alabaster	Limagrain	1.4	1,665	38.0
Albatros	Limagrain	2.6	1,390	37.2
Artoga	Limagrain	2.0	1,375	37.6
Atzeno	Limagrain	1.6	1,250	36.4
Arsenal	Limagrain	1.8	1,675	37.1
Mercedes	Rubisco Seeds	2.4	1,490	37.0
Dimension	Rubisco Seeds	2.6	1,240	36.6
Inspiration	Rubisco Seeds	2.2	1,165	36.5
Edimax	Rubisco Seeds	2.4	1,345	37.0
PX 112	DuPont Pioneer	3.2	1,350	37.1
PX 117	DuPont Pioneer	2.6	1,130	36.8
EXP 1301	DuPont Pioneer	2.2	1,325	37.1
EXP 1302	DuPont Pioneer	2.0	1,395	36.9
NK Petrol	Syngenta	2.4	1,205	37.3
NK Technic	Syngenta	2.8	1,145	37.1
Mean		2.4	1,345	36.9
LSD (P=0.05)			476	

Table 5. Pond Creek location for glyphosate-resistant cultivars for the 2014-2015 season.

Cooperator: Jeff Scott
 Previous Crop: Wheat
 Planting Date: September 30th
 Soil Series: Bethany Silt Loam

Tillage: Minimum tillage
 Harvest Type: Swather
 Harvest Date: June 11th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
KSR 07363	Kansas State University	2.4	1,995	37.6
KSR 4652	Kansas State University	2.2	1,750	37.1
KSR 4653S	Kansas State University	3.4	1,815	37.0
Star 915W	Star Specialty Seeds	2.6	1,495	36.9
DKW 41-10	Dekalb- Monsanto	3.2	1,625	36.6
DKW 44-10	Dekalb- Monsanto	2.8	1,845	37.3
DKW 45-25	Dekalb- Monsanto	2.8	1,885	37.5
DKW 46-15	Dekalb- Monsanto	2.8	1,650	36.6
DKW 47-15	Dekalb- Monsanto	1.8	1,845	37.1
HC 115W	Croplan Genetics	2.2	1,540	37.2
HC 125W	Croplan Genetics	2.4	1,840	37.0
EXP. 14-05	Croplan Genetics	1.6	1,740	36.9
46W94	DuPont Pioneer	1.4	2,160	37.3
Mean		2.4	1,783.5	37.1
LSD (P=0.05)			450	

Table 6. Miami location for conventional cultivars for the 2014-2015 season.

Cooperator: Brent Rendel
 Previous Crop: Corn
 Planting Date: September 29th
 Soil Series: Taloka Silt Loam

Tillage: Conventional tillage
 Harvest Type: Direct
 Harvest Date: July 2nd

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
Riley	Kansas State University	3.4	2,040	44.2
Sumner	Kansas State University	2.4	1,245	42.9
Wichita	Kansas State University	3.2	2,075	43.9
KSUR21	Kansas State University	3.0	2,220	43.7
KS 4506	Kansas State University	3.0	2,115	44.1
Hekip	Photosyntech	2.6	2,035	44.4
Alabaster	Limagrain	3.8	2,405	44.6
Albatros	Limagrain	3.2	2,245	46.1
Artoga	Limagrain	3.0	2,380	44.5
Atzeno	Limagrain	3.2	1,910	45.4
Arsenal	Limagrain	3.4	2,370	44.7
Mercedes	Rubisco Seeds	2.8	1,850	45.6
Dimension	Rubisco Seeds	3.0	1,545	45.8
Inspiration	Rubisco Seeds	2.6	2,105	44.5
Edimax	Rubisco Seeds	3.8	2,405	43.8
PX 112	DuPont Pioneer	3.4	2,455	45.0
PX 117	DuPont Pioneer	2.8	2,210	46.0
EXP 1301	DuPont Pioneer	3.2	2,415	47.3
EXP 1302	DuPont Pioneer	3.2	2,575	47.1
NK Petrol	Syngenta	2.6	2,265	42.8
NK Technic	Syngenta	4.0	2,535	43.2
Mean		3.1	2,162.0	44.7
LSD (P=0.05)			441	

Table 7. Miami location for glyphosate resistant cultivars for the 2014-2015 season.

Cooperator: Brent Rendel
 Previous Crop: Corn
 Planting Date: September 29th
 Soil Series: Taloka Silt Loam

Tillage: Conventional Tillage
 Harvest Type: Direct
 Harvest Date: July 2nd

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
KSR 07363	Kansas State University	3.4	2180	43.2
KSR 4652	Kansas State University	2.8	2430	43.1
KSR 4653S	Kansas State University	4.0	2145	44.1
Star 915W	Star Specialty Seeds	3.4	1735	43.4
DKW 41-10	Dekalb- Monsanto	3.6	2080	42.4
DKW 44-10	Dekalb- Monsanto	4.2	2230	43.2
DKW 45-25	Dekalb- Monsanto	3.4	1970	42.4
DKW 46-15	Dekalb- Monsanto	3.8	1945	44.6
DKW 47-15	Dekalb- Monsanto	3.4	1815	42.8
HC 115W	Croplan Genetics	4.0	2225	44.3
HC 125W	Croplan Genetics	3.6	2050	44.1
EXP. 14-05	Croplan Genetics	3.2	2285	46.0
46W94	DuPont Pioneer	3.0	2340	45.3
Mean		3.5	2110.0	43.8
LSD (P=0.05)			400	

Table 8. El Reno location for conventional cultivars for the 2014-2015 season.

Cooperator: Jerry Lingo
 Previous Crop: Wheat
 Planting Date: September 26th
 Soil Series: Bethany Silt Loam

Tillage: Conventional tillage
 Harvest Type: Direct
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
Riley	Kansas State University	3.4	1,380	36.8
Sumner	Kansas State University	2.4	1,630	38.8
Wichita	Kansas State University	3.0	1,245	37.7
KSUR21	Kansas State University	3.2	1,170	36.9
KS 4506	Kansas State University	2.8	1,090	37.2
Hekip	Photosyntech	2.8	1,545	38.9
Alabaster	Limagrain	3.2	1,845	40.0
Albatros	Limagrain	2.2	1,390	38.3
Artoga	Limagrain	2.6	1,275	36.8
Atzeno	Limagrain	2.4	1,485	38.5
Arsenal	Limagrain	3.6	1,190	37.2
Mercedes	Rubisco Seeds	3.0	1,125	38.5
Dimension	Rubisco Seeds	3.0	1,550	38.7
Inspiration	Rubisco Seeds	3.6	1,140	36.7
Edimax	Rubisco Seeds	3.4	1,340	37.6
PX 112	DuPont Pioneer	3.4	1,675	39.3
PX 117	DuPont Pioneer	3.6	1,325	38.9
EXP 1301	DuPont Pioneer	3.6	1,445	37.7
EXP 1302	DuPont Pioneer	2.8	1,620	38.5
NK Petrol	Syngenta	2.8	1,,595	38.6
NK Technic	Syngenta	3.4	1,105	37.6
Mean		3.1	1,389.0	38.1
LSD (P=0.05)			540	

Table 9. El Reno location for glyphosate resistant cultivars for the 2014-2015 season.

Cooperator: Jerry Lingo
 Previous Crop: Wheat
 Planting Date: September 26th
 Soil Series: Bethany Silt Loam

Tillage: Conventional Tillage
 Harvest Type: Direct
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
KSR 07363	Kansas State University	3.4	720	36.8
KSR 4652	Kansas State University	3.4	815	36.9
KSR 4653S	Kansas State University	3.2	775	37.0
Star 915W	Star Specialty Seeds	3.4	915	36.6
DKW 41-10	Dekalb- Monsanto	3.6	960	36.7
DKW 44-10	Dekalb- Monsanto	3.8	1115	37.2
DKW 45-25	Dekalb- Monsanto	3.6	1100	37.2
DKW 46-15	Dekalb- Monsanto	3.2	765	36.3
DKW 47-15	Dekalb- Monsanto	2.8	975	37.3
HC 115W	Croplan Genetics	3.2	800	35.9
HC 125W	Croplan Genetics	3.8	870	37.3
EXP. 14-05	Croplan Genetics	3.0	720	35.9
46W94	DuPont Pioneer	3.2	860	37.2
Mean		3.4	876.2	36.8
LSD (P=0.05)			350	

Table 10. Fort Cobb location for conventional cultivars for the 2014-2015 season.

Cooperator: Bobby Weidenmaier
 Previous Crop: Wheat
 Planting Date: October 2nd
 Soil Series: Binger Fine Sandy Loam

Tillage: Conventional Tillage
 Harvest Type: Direct
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
Riley	Kansas State University	3.3	2185	40.7
Sumner	Kansas State University	2.7	2290	41.0
Wichita	Kansas State University	3.7	3075	41.1
KSUR21	Kansas State University	3.7	2940	40.7
KS 4506	Kansas State University	3.8	2825	40.5
Hekip	Photosyntech	2.3	2700	42.7
Alabaster	Limagrain	3.0	2985	42.2
Albatros	Limagrain	3.0	2140	41.9
Artoga	Limagrain	3.3	2620	41.8
Atzeno	Limagrain	3.5	3100	40.9
Arsenal	Limagrain	2.8	2265	42.0
Mercedes	Rubisco Seeds	3.3	2750	43.1
Dimension	Rubisco Seeds	3.3	1815	41.1
Inspiration	Rubisco Seeds	3.0	2670	41.5
Edimax	Rubisco Seeds	3.8	2535	41.6
PX 112	DuPont Pioneer	3.5	3095	42.5
PX 117	DuPont Pioneer	3.5	2835	43.0
EXP 1301	DuPont Pioneer	3.0	2705	43.4
EXP 1302	DuPont Pioneer	3.8	2355	43.1
NK Petrol	Syngenta	2.8	2435	40.6
NK Technic	Syngenta	3.3	3175	41.0
Mean		3.3	2643.0	41.7
LSD (P=0.05)			565	

Table 11. Fort Cobb location for glyphosate resistant cultivars for the 2014-2015 season.

Cooperator: Bobby Weidenmaier
 Previous Crop: Wheat
 Planting Date: October 2nd
 Soil Series: Binger Fine Sandy Loam

Tillage: Conventional Tillage
 Harvest Type: Direct
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i>	<i>Oil Content</i>
			<i>lbs/ac</i>	<i>%</i>
Ril				
KSR 07363	Kansas State University	2.8	2,250	40.0
KSR 4652	Kansas State University	3.5	2,350	40.7
KSR 4653S	Kansas State University	2.8	2,340	41.0
Star 915W	Star Specialty Seeds	3.3	2,460	40.4
DKW 41-10	Dekalb- Monsanto	3.8	2,265	39.4
DKW 44-10	Dekalb- Monsanto	3.5	2,900	39.9
DKW 45-25	Dekalb- Monsanto	3.0	2,825	40.3
DKW 46-15	Dekalb- Monsanto	3.8	2,270	40.5
DKW 47-15	Dekalb- Monsanto	3.0	2,175	40.6
HC 115W	Croplan Genetics	3.5	2,755	40.7
HC 125W	Croplan Genetics	3.5	2,490	40.7
EXP. 14-05	Croplan Genetics	3.0	2,340	41.2
46W94	DuPont Pioneer	2.8	2,340	41.0
Mean		3.3	2,443.1	40.5
LSD (P=0.05)			600	

Table 12. Kingfisher location for conventional cultivars for the 2014-2015 season.

Cooperator: Rodney Mueggenborg
 Previous Crop: Wheat
 Planting Date: September 25th
 Soil Series: Renthin Clay Loam

Tillage: Conventional Tillage
 Harvest Type: Swathed
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
Riley	Kansas State University	3.2	2280	40.2
Sumner	Kansas State University	3.2	1920	39.4
Wichita	Kansas State University	3.0	1720	39.4
KSUR21	Kansas State University	2.8	2035	39.2
KS 4506	Kansas State University	3.4	1810	40.3
Hekip	Photosyntech	2.6	2315	39.8
Alabaster	Limagrain	2.8	1990	40.6
Albatros	Limagrain	2.8	2450	40.4
Artoga	Limagrain	2.8	2875	39.9
Atzeno	Limagrain	3.2	2215	40.9
Arsenal	Limagrain	2.8	1815	40.2
Mercedes	Rubisco Seeds	2.8	2400	42.9
Dimension	Rubisco Seeds	2.8	1760	40.9
Inspiration	Rubisco Seeds	3.4	2110	40.9
Edimax	Rubisco Seeds	3.4	2355	40.2
PX 112	DuPont Pioneer	4.2	2605	41.3
PX 117	DuPont Pioneer	3.6	2525	42.9
EXP 1301	DuPont Pioneer	3.4	2420	43.6
EXP 1302	DuPont Pioneer	3.6	2370	43.2
NK Petrol	Syngenta	2.6	2190	39.7
NK Technic	Syngenta	3.8	2125	41.5
Mean		3.2	2204.0	40.8
LSD (P=0.05)			685	

Table 13. Kingfisher location for glyphosate resistant cultivars for the 2014-2015 season.

Cooperator: Rodney Mueggenborg
 Previous Crop: Wheat
 Planting Date: September 25th
 Soil Series: Renthin Clay Loam

Tillage: Conventional Tillage
 Harvest Type: Swathed
 Harvest Date: June 10th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
KSR 07363	Kansas State University	3.6	1070	40.0
KSR 4652	Kansas State University	3.4	455	39.4
KSR 4653S	Kansas State University	3.2	865	40.3
Star 915W	Star Specialty Seeds	3.0	540	40.5
DKW 41-10	Dekalb- Monsanto	4.0	375	40.5
DKW 44-10	Dekalb- Monsanto	3.6	1675	40.3
DKW 45-25	Dekalb- Monsanto	3.0	420	39.9
DKW 46-15	Dekalb- Monsanto	3.6	810	40.0
DKW 47-15	Dekalb- Monsanto	3.0	460	40.0
HC 115W	Croplan Genetics	4.0	845	40.0
HC 125W	Croplan Genetics	2.8	665	39.1
EXP. 14-05	Croplan Genetics	2.4	450	40.8
46W94	DuPont Pioneer	3.2	405	40.0
Mean		3.3	695.0	40.1
LSD (P=0.05)			250	

Table 14. Dacoma location for glyphosate resistant cultivars for the 2014-2015 season.

Cooperator: Jay and Lee Leeper
Previous Crop: Wheat
Planting Date: October 1st
Soil Series: Grant Silt Loam

Tillage: No Tillage
Harvest Type: Swathed
Harvest Date: June 11th

<i>Cultivar</i>	<i>Company</i>	<i>Spring stands</i>	<i>Seed yield 2014-2015</i> <i>lbs/ac</i>	<i>Oil Content</i> <i>%</i>
KSR 07363	Kansas State University	1.8	1440	38.0
KSR 4652	Kansas State University	2.6	1595	38.2
KSR 4653S	Kansas State University	1.6	1040	39.0
Star 915W	Star Specialty Seed	1.6	880	38.9
DKW 41-10	Dekalb- Monsanto	2.4	1415	37.5
DKW 44-10	Dekalb- Monsanto	1.8	1405	37.5
DKW 45-25	Dekalb- Monsanto	1.2	1420	38.2
DKW 46-15	Dekalb- Monsanto	2.0	1735	40.1
DKW 47-15	Dekalb- Monsanto	1.4	800	38.1
HC 115W	Croplan Genetics	2.0	1525	39.6
HC 125W	Croplan Genetics	1.2	705	38.7
EXP. 14-05	Croplan Genetics	0.6	155	35.6
46W94	DuPont Pioneer	0.4	260	36.3
Mean		1.6	1105.8	38.1
LSD (P=0.05)			600	

The Oklahoma Cooperative Extension Service

Bringing the University to You!

The Cooperative Extension Service is the largest, most successful informal educational organization in the world. It is a nationwide system funded and guided by a partnership of federal, state, and local governments that delivers information to help people help themselves through the land-grant university system.

Extension carries out programs in the broad categories of agriculture, natural resources and environment; family and consumer sciences; 4-H and other youth; and community resource development. Extension staff members live and work among the people they serve to help stimulate and educate Americans to plan ahead and cope with their problems.

Some characteristics of the Cooperative Extension system are:

- The federal, state, and local governments cooperatively share in its financial support and program direction.
 - It is administered by the land-grant university as designated by the state legislature through an Extension director.
 - Extension programs are nonpolitical, objective, and research-based information.
 - It provides practical, problem-oriented education
- for people of all ages. It is designated to take the knowledge of the university to those persons who do not or cannot participate in the formal classroom instruction of the university.
 - It utilizes research from university, government, and other sources to help people make their own decisions.
 - More than a million volunteers help multiply the impact of the Extension professional staff.
 - It dispenses no funds to the public.
 - It is not a regulatory agency, but it does inform people of regulations and of their options in meeting them.
 - Local programs are developed and carried out in full recognition of national problems and goals.
 - The Extension staff educates people through personal contacts, meetings, demonstrations, and the mass media.
 - Extension has the built-in flexibility to adjust its programs and subject matter to meet new needs. Activities shift from year to year as citizen groups and Extension workers close to the problems advise changes.

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