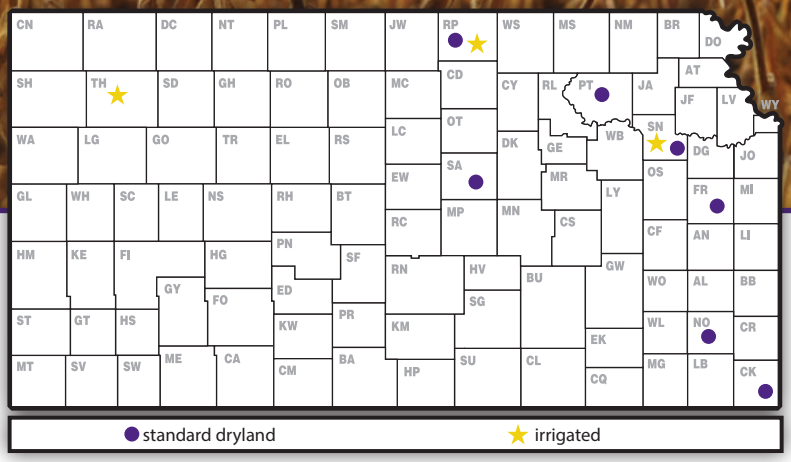
2017 Kansas Performance Tests with

Soybean Varieties



Report of Progress 1137

K-STATE
Research and Extension

Kansas State University Agricultural Experiment Station and Cooperative Extension Service

CONTENTS

Contribution no. 18-277-S from the Kansas Agricultural Experiment Station.

2017 KANSAS SOYBEAN PERFORMANCE TESTS

STATEWIDE GROWING CONDITIONS

The 2017 soybean season had an overall favorable but a very distinct weather pattern for the east and central parts of the state. Early-season wet conditions slightly delayed planting during the early side of the crop planting window. Early growth was slowed by wet soil conditions. Delay of planting date may cause yield reductions, primarily under high-yielding environments (>70 bushels per acre).

During the growing season, flooding was an issue in many locations, with Sedgwick and Brown counties particularly hard hit. Wet conditions early in the season with saturated soils inhibit root growth, leaf area expansion, increase production issues related to root compaction, and produce yellow leaves.

Hail was also a problem across the state. There were 586 reports of large hail through October 15. Of those events, 160 were reported in May. Hail has a larger impact when occurring during grain filling later in the season when the plant depends on the leaves. Hail during this period will potentially affect seed set (both seed number and weight). There were 57 hail events in September and October.

As related to the precipitation conditions, most divisions averaged above normal for the period of April 1 through October 15. The greatest departure was in the West Central, where the divisional average was 19.74 inches or 123% of normal. The Northeast Division faced the greatest shortfall, with an average of 23.59 inches or 89% of normal. At the Hiawatha station, rainfall dropped below normal in mid-June and continued below normal for the rest of the season. The western divisions enjoyed wetter than normal conditions through the summer, before entering a drier pattern in September and October.

For soybeans, temperatures weren't as much of a factor. The warmest readings were seen in mid-July, with the highest reading of 110°F reported on July 24 at Webster Dam. There were some late freeze dates, with multiple locations in Northwest KS dropping to 30°F on May 5. The first autumn freezes were later than average, with Sharon Springs dropping to 31°F on the 14th of October, and Concordia reaching 30°F on the 27th. Luckily, the below-freezing temperatures did not greatly affect soybean since only small specific areas cultivated with soybean were affected (primarily North Central and Northwest Kansas).

Reproductive temperature and precipitation conditions were favorable for seed filling process. Late-season conditions delayed harvest, challenging in some areas the harvest progress.

Despite the abovementioned challenges, USDA forecasted in October a soybean yield of 41 bushels per acre for the state of Kansas for the 2017 season, 7 bushels per acre lower compared to the final yield recorded for the 2016 growing season, but with an overall increase in production due to the substantial increase in the number of harvested acres (Ignacio A. Ciampitti, Kansas State University Cropping Systems Specialist, and Mary Knapp, Kansas State University Climatologist).

TEST OBJECTIVES AND PROCEDURES

Soybean performance tests are conducted each year to provide information on the relative performance of new and established varieties and brands at several locations in Kansas.

Seeds for tests are from private seed companies, certified growers, and agricultural experiment stations (Table 1). Seed quality, including factors such as purity and germination, can be important in determining the performance of a variety. Soybean seed used for private and public entries in the Kansas Crop Performance Tests is prepared professionally and usually meets or exceeds Kansas Crop Improvement Certification standards. Relative performance of a given variety comparable to that obtained in these tests is best assured under similar environmental conditions and cultural practices and with the use of certified or professionally prepared seed. All companies known to be developing and marketing soybean varieties or brands are invited to submit test seed; interested companies enter on a voluntary, fee-entry basis.

Entries were planted in four-row plots with rows 30 inches apart and were replicated three or four times each. Seeding rate ranged from 7 to 12 seeds per foot of row. The center two rows of each plot were harvested for yield. Harvested row lengths ranged from 11 to 33 feet, depending on location. Cultural practices and rainfall for each test location are presented with each table. Results from this year's tests are presented in Tables 2 through 16. Relative yields of each entry from all locations are shown in Table 17.

DATA INTERPRETATION

Yields are recorded as bushels per acre (60 lb/bushel) adjusted to 13% moisture content, when moisture data are available. Seed yield also is expressed as a percentage of the test average to assist in identifying entries that consistently produce better than the average yield.

Maturity is the date on which 95% of the pods have ripened (browned). Delayed leaf drop and green stems are not considered when assigning maturity. About 1 week of good drying weather after maturing is needed before soybeans are ready to harvest.

Lodging is rated at maturity by the following scores:

1. Almost all plants erect
2. All plants slightly leaning or a few plants down
3. All plants leaning moderately (45%) or 25 to 50% of plants down
4. All plants leaning considerably or 50 to 80% plants down
5. Almost all plants down

Height is the average length from the soil surface to the top of the main stem of mature plants.

VARIETY OR BRAND SELECTION

Performance of soybean varieties or brands varies from year to year and from location to location, depending on factors such as weather, management practices, and variety adaptation. When selecting varieties or brands, producers should carefully analyze variety performance for two or more years across locations. Performance averaged over several environments will provide a better estimate of genetic potential and stability than performance based on a few environments.

Small differences in yield between any two varieties or brands usually are not important. Within maturity groups at each location, a LSD (least significant difference) was calculated. The significance level used to calculate the LSD was 10%. Unless two varieties differ in yield by more than the LSD, genetic yield potential of one entry cannot be considered superior to that of another.

The coefficient of variability (CV) represents an estimate of the precision in the replicated yield trials. A CV of less than 10% indicates a good test with a high level of reliability. CVs ranging from 10 to 15% are usually acceptable for performance comparisons. CVs greater than 15% generally lack sufficient precision to provide any more than a rough guide to cultivar performance. For tests in which the precision was insufficient to statistically compare performance among the entries, the LSD value has been replaced with the designation NS, indicating that seed yields were not significantly different.

Test results also can be found online at: *http://www.agronomy.k-state.edu/services/crop-performance-tests/soybean*

Table 1. Entrants in the 2017 Kansas Soybean Performance Tests

Arkansas Ag. Exp. Stn. (AES)
Fayetteville, AK
479-466-2213

Kansas Ag. Exp. Stn. (AES)
Manhattan, KS
785-532-7243

Missouri Ag. Exp. Stn (AES)
Portageville, MO
573-379-5431

Bayer CropScience
Credenz
Research Triangle Park, NC
417-880-6873

Dyna-Gro Seed
Goddard, KS
316-772-8925
cpsagu.com

eMerge Genetics
West Des Moines, IA
866-769-7200
emergegenetics.com

Frontier Seed
Warrensburg, MO
1(844)2-FRONTIER
newfrontiergenetics.com

LG Seeds
Elmwood, IL
309-742-2211
lgseeds.com

Midland
Sylvester Seed Farm
Ottawa, KS
800-819-7333
midlandgenetics.com

Monsanto
Asgrow
St. Louis, MO
800-768-6387
aganytime.com/asgrow

Morsoy
MFA Incorporated
Columbia, MO
573-876-5363
mfa-inc.com

Phillips Seed Farms
Hope, KS
785-949-2204
phillipsseed.com

Syngenta
Golden Harvest Brand Seed
Miltonvale, KS
785-201-5632
syngenta.com

Willcross
NeCo Seed Farms, Inc.
Garden City, MO
816-862-8203
willcross.com

Lance Rezac Farm, Onaga, Pottawatomie County; Bill Schapaugh, agronomist

Wabash silty clay

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	7.9	7.2	2.5	3.8	2.4	1.9	28.6

Ideal planting conditions with excellent stand establishment. During early vegetative development, the field received drift from dicamba. Growth of the dicamba susceptible varieties was slowed for a few weeks, but plants were not killed and growing conditions remained favorable for vegetative development. We have no way of measuring the impact on yield from the herbicide drift. The highest yielding entries in the test were resistant to dicamba, but the yields of some of the susceptible varieties were average to above average for the test.

Planted 5/15/2017 at 155,000 seeds/ft; harvested 10/20/2017; 12 ft. by 4-row plot; pesticides: Cobra (12.5 oz) + Avatar (18 oz)

Table 2. Onaga, Pottawatomie County Dryland Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	69.9	68.0	32.5	68.9	--	102	98	--	9/22	2.5	44
ASGROW	AG4232	RR2Y	71.1	66.8	29.5	68.9	55.8	104	96	96	10/3	1.3	49
ASGROW	AG5335	RR2Y	68.9	--	--	--	--	101	--	--	10/10	1.0	51
CHECK	MG3.5	RR	66.3	64.0	25.9	65.2	52.1	97	92	84	9/23	1.9	42
CHECK	MG3.9	RR	69.7	**72.7**	30.1	71.2	57.5	102	105	97	9/28	1.0	38
CHECK	MG4.2	RR	66.2	65.1	--	65.6	--	97	94	--	10/1	1.0	44
CHECK	MG4.5	RR	69.6	67.8	--	68.7	--	102	98	--	10/2	1.0	42
CREDENZ	CZ 3548 LL	LL	73.4	--	--	--	--	107	--	--	9/19	1.0	37
CREDENZ	CZ 3601 LL	LL	68.4	--	--	--	--	100	--	--	9/23	1.0	41
CREDENZ	CZ 3738 LL	LL	66.9	--	--	--	--	98	--	--	9/25	1.0	38
CREDENZ	CZ 3841 LL	LL	68.2	--	--	--	--	100	--	--	9/24	1.3	44
CREDENZ	CZ 4105 LL	LL	70.8	--	--	--	--	103	--	--	9/29	1.0	42
CREDENZ	CZ 4222 LL	LL	67.6	--	--	--	--	99	--	--	9/28	1.0	40
CREDENZ	CZ 4308 LL	LL	69.8	--	--	--	--	102	--	--	9/30	1.5	44
CREDENZ	CZ 4548 LL	LL	67.4	--	--	--	--	98	--	--	9/30	1.5	42
EMERGE GENETICS	e3796	C	65.4	--	--	--	--	95	--	--	9/26	1.0	39
EMERGE GENETICS	e4194	C	63.4	--	--	--	--	93	--	--	9/26	1.0	41
EMERGE GENETICS	e4394	C	66.8	--	--	--	--	97	--	--	10/1	1.3	45
EMERGE GENETICS	N4356S	C	61.1	--	--	--	--	89	--	--	10/9	1.3	50
FRONTIER SEED	3SR92	RR	65.7	70.8	--	68.3	--	96	102	--	9/27	1.5	42
FRONTIER SEED	4FR10	RR	68.7	--	--	--	--	100	--	--	9/30	1.0	43
KANSAS AES	K12-2333	C	62.4	--	--	--	--	91	--	--	9/26	1.3	44
KANSAS AES	K13-1615	C	64.8	--	--	--	--	95	--	--	9/26	1.3	42
KANSAS AES	K4313NRRT	RR1	63.3	66.1	--	64.7	--	92	95	--	9/24	2.2	42
KANSAS AES	KS3406RR	RR1	63.3	62.1	--	62.7	--	92	90	--	9/24	1.5	41
KANSAS AES	KS4117NS	C	65.1	--	--	--	--	95	--	--	9/27	1.0	38
KANSAS AES	KS4313N	C	65.2	--	--	--	--	95	--	--	9/25	2.2	42
MIDLAND	3537NX	RR2X	74.8	68.6	--	71.7	--	109	99	--	9/24	1.0	39
MIDLAND	3657NR2	RR2	71.5	70.1	--	70.8	--	104	101	--	9/24	1.0	41
MIDLAND	3926NRS2	RR2	70.4	64.7	32.9	67.6	56.0	103	93	106	9/27	1.0	43
MIDLAND	3938NX	RR2X	**76.5**	--	--	--	--	112	--	--	9/25	1.0	43
MIDLAND	3983NR2	RR2	71.0	**73.6**	31.4	72.3	58.6	104	106	102	9/27	1.0	45
MIDLAND	4328NX	RR2X	75.3	--	--	--	--	110	--	--	9/26	1.0	43
MISSOURI	S14-9051R	RR1	66.2	--	--	--	--	97	--	--	10/3	1.8	44
MORSOY	3907RXT	RR2X	**78.9**	--	--	--	--	115	--	--	9/25	1.0	44
MORSOY	4117 RXT	RR2X	71.3	--	--	--	--	104	--	--	9/25	1.0	39
WILLCROSS	WXE3367N	RR2X	66.9	--	--	--	--	98	--	--	9/21	1.0	38
WILLCROSS	WXE3377N	RR2X	69.8	--	--	--	--	102	--	--	9/23	1.0	43
WILLCROSS	WXE3386N	RR2X	71.3	**73.0**	--	72.2	--	104	105	--	9/23	1.0	43
	AVERAGES		68.5	69.4	30.9								
	CV (%)		3.7	7.8	6.6								
	LSD (0.10)		3.0	6.3	2.4								

Values in bold are in the upper LSD group.

J.D. Hanna, Erma Harden Farm, Kiro, Shawnee County; Eric Adee, agronomist

Variable growing conditions throughout vegetative development, but ideal growing conditions during August and seed fill.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	6.0	3.7	6.6	4.8	6.9	1.8	32.8

Planted 5/12/2017 at 140,000 seeds/ft; harvested 10/12/2017; 11 ft. by 4-row plot; pesticides: Pre-emerge: Basis Blend (1.25 oz) + 2,4-D LV4 (1 pt); May 12: Zidua (2 oz) + Valor (2 oz.) + Liberty (32 oz); Post-emerge: FirstRate (0.3 oz) + Select Max (16 oz)

Table 3. Kiro, Shawnee County Dryland Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	82.5	--	--	--	--	100	--	--	9/22	4.5	45
ASGROW	AG4232	RR2Y	87.4	--	**89.5**	--	--	106	--	112	10/5	2.8	44
CHECK	MG3.5	RR	84.0	--	77.8	--	--	101	--	97	9/21	3.0	42
CHECK	MG3.9	RR	**91.0**	--	**91.2**	--	--	110	--	114	9/25	3.0	40
CHECK	MG4.2	RR	**88.6**	--	--	--	--	107	--	--	9/30	1.5	45
CHECK	MG4.5	RR	**90.9**	--	--	--	--	110	--	--	10/1	1.5	40
CREDENZ	CZ 3945LL	LL	81.2	--	--	--	--	98	--	--	9/30	1.8	39
CREDENZ	CZ 4540LL	LL	67.1	--	--	--	--	81	--	--	10/7	2.8	49
EMERGE GENETICS	e3796	C	77.1	--	--	--	--	93	--	--	9/25	1.0	34
EMERGE GENETICS	e4394	C	77.7	--	--	--	--	94	--	--	10/4	2.3	46
KANSAS AES	K12-2333	C	75.2	--	--	--	--	91	--	--	9/26	2.5	40
KANSAS AES	K13-1615	C	85.4	--	--	--	--	103	--	--	9/26	2.5	41
KANSAS AES	K4313NRRT	RR1	81.0	65.9	**86.1**	73.5	77.7	98	87	108	9/28	3.3	48
KANSAS AES	KS3406RR	RR1	72.3	71.4	--	71.9	--	87	94	--	9/22	4.5	40
KANSAS AES	KS4117NS	C	87.1	--	--	--	--	105	--	--	9/21	1.8	41
KANSAS AES	KS4313N	C	85.8	--	--	--	--	104	--	--	9/28	3.0	43
MIDLAND	3537NX	RR2X	87.8	--	--	--	--	106	--	--	9/22	1.8	37
MIDLAND	3657NR2	RR2	81.4	--	--	--	--	98	--	--	9/26	1.5	40
MIDLAND	3926NRS2	RR2	**92.8**	**78.7**	81.1	85.8	84.2	112	104	101	10/2	1.5	43
MIDLAND	3938NX	RR2X	86.8	--	--	--	--	105	--	--	9/22	2.0	38
MIDLAND	3983NR2	RR2	76.7	**79.6**	**86.7**	78.1	81.0	93	105	108	9/28	2.8	46
MIDLAND	4328NX	RR2X	82.3	--	--	--	--	99	--	--	9/28	2.0	49
MIDLAND	4373NR2	RR2	82.9	**78.1**	76.0	80.5	79.0	100	103	95	10/4	2.0	41
MISSOURI	S14-9051R	RR1	**93.8**	--	--	--	--	113	--	--	10/8	2.8	46
MORSOY	3907RXT	RR2X	80.6	--	--	--	--	97	--	--	9/30	1.8	43
MORSOY	4117 RXT	RR2X	83.3	--	--	--	--	101	--	--	9/30	2.3	43
MORSOY	4327 RXT	RR2X	79.6	--	--	--	--	96	--	--	10/6	1.3	49
MORSOY	4426 RXT	RR2X	84.6	77.2	--	--	--	102	--	--	10/6	1.5	48
MORSOY	4535 RXT	RR2X	80.8	**80.4**	--	80.6	--	98	106	--	10/5	3.0	52
SYNGENTA	NK S39-T3	RR2Y	**88.7**	--	--	--	--	107	--	--	10/2	2.0	43
WILLCROSS	WXE3377N	RR2X	78.3	--	--	--	--	95	--	--	9/23	1.3	44
WILLCROSS	WXE3386N	RR2X	82.0	70.3	--	76.1	--	99	93	--	9/23	2.0	43
WILLCROSS	WXE3437N	RR2X	81.3	--	--	--	--	98	--	--	10/5	1.3	48
WILLCROSS	WXE3446NS	RR2X	79.2	**77.9**	--	78.6	--	96	103	--	10/4	1.8	48
	AVERAGES		82.8	75.7	80.0								
	CV (%)		5.5	6.9	8.4								
	LSD (0.10)		5.4	6.1	7.9								

Values in bold are in the upper LSD group.

Kansas River Valley Experiment Field, Topeka, Shawnee County; Eric Adee, agronomist

Eudora Silt loam

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	5.5	6.5	6.5	2.8	4.1	1.2	29.2
Irrigation:				0.8			

Variable growing conditions throughout vegetative development, but ideal growing conditions during August and seed fill. The test was irrigated only once in July. Soybean Sudden Death Syndrome developed later than normal, but did become moderately severe and influenced the performance of the varieties.

Planted 5/12/2017 at 140,000 seeds/ft; harvested 10/13/2017; 11 ft. by 4-row plot; pesticides: Pre-emerge: Basis Blend (1.25 oz) + 2,4-D LV4 (1 pt); May 15: Zidua (2 oz) + Valor (2 oz.) + Liberty (32 oz); Post-emerge: FirstRate (0.3 oz) + Fusilade (4.5 oz)

Table 4. Topeka, Shawnee County Irrigated Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	66.3	**62.9**	65.8	64.6	--	94	111	--	9/22	5.0	49
ASGROW	AG4232	RR2Y	60.8	**59.2**	68.4	60.0	62.8	86	104	102	10/4	3.3	47
CHECK	MG3.5	RR	67.6	**60.4**	75.4	64.0	67.8	96	106	112	9/20	4.8	46
CHECK	MG3.9	RR	71.8	59.0	74.8	65.4	68.5	102	104	111	9/26	2.5	43
CHECK	MG4.2	RR	73.1	56.8	--	64.9	--	104	100	--	10/4	2.0	47
CHECK	MG4.5	RR	**77.7**	**62.7**	--	70.2	--	110	110	--	10/4	1.5	46
CREDENZ	CZ 3548 LL	LL	71.9	--	--	--	--	102	--	--	9/21	4.8	41
CREDENZ	CZ 3601 LL	LL	**81.5**	--	--	--	--	116	--	--	9/23	2.0	41
CREDENZ	CZ 3738 LL	LL	**76.2**	--	--	--	--	108	--	--	9/28	1.8	43
CREDENZ	CZ 3841 LL	LL	**82.8**	--	--	--	--	118	--	--	9/25	2.8	46
CREDENZ	CZ 4105 LL	LL	72.2	--	--	--	--	103	--	--	9/30	1.3	43
CREDENZ	CZ 4222 LL	LL	75.3	--	--	--	--	107	--	--	9/27	2.3	41
CREDENZ	CZ 4308 LL	LL	71.9	--	--	--	--	102	--	--	10/3	2.8	46
CREDENZ	CZ 4548 LL	LL	63.7	--	--	--	--	91	--	--	10/3	3.8	49
KANSAS AES	K12-2333	C	60.4	--	--	--	--	86	--	--	9/24	3.5	47
KANSAS AES	K4313NRRT	RR1	61.3	--	--	--	--	87	--	--	9/24	4.8	46
KANSAS AES	KS4117NS	C	68.9	--	--	--	--	98	--	--	9/28	2.3	39
MIDLAND	3537NX	RR2X	74.3	54.8	--	64.6	--	106	97	--	9/23	1.8	43
MIDLAND	3657NR2	RR2	64.7	**61.1**	--	62.9	--	92	108	--	9/26	2.3	42
MIDLAND	3926NRS2	RR2	71.9	**67.3**	**77.1**	69.6	72.1	102	119	114	9/29	2.3	46
MIDLAND	3938NX	RR2X	**79.5**	--	--	--	--	113	--	--	10/3	2.0	47
MIDLAND	3983NR2	RR2	69.7	**61.4**	--	65.5	--	99	108	--	9/29	3.3	48
MIDLAND	4328NX	RR2X	65.8	--	--	--	--	93	--	--	9/30	3.3	47
MISSOURI	S14-9051R	RR1	**75.5**	--	--	--	--	107	--	--	10/8	3.5	47
MORSOY	3907RXT	RR2X	**77.7**	--	--	--	--	110	--	--	9/28	2.0	45
MORSOY	4117 RXT	RR2X	71.7	--	--	--	--	102	--	--	9/29	2.8	44
MORSOY	4327 RXT	RR2X	59.1	--	--	--	--	84	--	--	10/5	2.3	50
MORSOY	4426 RXT	RR2X	72.7	**60.9**	--	--	--	103	--	--	10/6	2.5	46
MORSOY	4535 RXT	RR2X	54.3	52.7	--	53.5	--	77	93	--	10/4	3.5	51
SYNGENTA	NK S39-T3	RR2Y	70.2	--	--	--	--	100	--	--	10/2	2.3	44
WILLCROSS	WXE3377N	RR2X	74.2	--	--	--	--	105	--	--	9/25	1.8	45
WILLCROSS	WXE3386N	RR2X	73.7	**63.2**	--	68.4	--	105	111	--	9/25	3.3	46
WILLCROSS	WXE3437N	RR2X	63.6	--	--	--	--	90	--	--	10/3	2.0	50
WILLCROSS	WXE3446NS	RR2X	65.8	57.2	--	61.5	--	93	101	--	10/6	2.8	50
	AVERAGES		70.4	56.8	67.4								
	CV (%)		8.9	13.5	9.4								
	LSD (0.10)		7.4	9.0	7.4								

Values in bold are in the upper LSD group.

East Central Kansas Experiment Field, Ottawa, Franklin County; Eric Adee, agronomist

Woodson silt loam

Initial planting destroyed by hail on May 31. Replanted June 9. Good growing conditions throught the entire season. Excellent weed control.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	7.0	3.5	7.6	2.1	7.9	4.3	36.9

Planted 6/9/2017 at 140,000 seeds/ft; harvested 10/18/2017; 26 ft. by 4-row plot; pesticides: Pre-emerge: Authority XL 7 oz, Dual II Mag 1.5 pt, and Zidua 3 oz

Table 5. Ottawa, Franklin County Dryland Soybean Performance Test, Maturity Groups III-IV, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	71.9	69.1	**55.1**	70.5	--	100	102	--	9/24	2.0	42
ASGROW	AG4232	RR2Y	**78.8**	71.1	**58.2**	75.0	69.4	110	105	109	10/5	2.0	40
CHECK	MG3.5	RR	72.3	--	51.6	--	--	101	--	97	9/24	2.0	40
CHECK	MG3.9	RR	**76.9**	68.3	49.9	72.6	65.0	107	101	94	9/26	1.0	37
CHECK	MG4.2	RR	**75.7**	**78.0**	--	76.9	--	105	115	--	10/3	1.0	42
CREDENZ	CZ 3841 LL	LL	71.4	--	**58.7**	--	--	99	--	110	9/26	1.8	39
CREDENZ	CZ 3945LL	LL	68.6	--	--	--	--	96	--	--	9/27	1.3	40
CREDENZ	CZ 4105 LL	LL	66.2	--	51.0	--	--	92	--	96	9/30	1.3	36
CREDENZ	CZ 4222 LL	LL	71.9	--	--	--	--	100	--	--	9/27	2.0	37
CREDENZ	CZ 4308 LL	LL	**73.4**	--	--	--	--	102	--	--	10/1	1.8	38
CREDENZ	CZ 4540LL	LL	60.2	--	--	--	--	84	--	--	10/9	2.0	48
CREDENZ	CZ 4548 LL	LL	71.0	--	--	--	--	99	--	--	10/2	1.3	39
EMERGE GENETICS	e3796	C	66.3	--	--	--	--	92	--	--	9/26	1.3	36
EMERGE GENETICS	e4394	C	67.9	62.6	--	65.3	--	95	92	--	10/1	1.3	37
FRONTIER SEED	4FR10	RR	70.7	--	--	--	--	98	--	--	10/1	2.0	39
FRONTIER SEED	4FR62	RR	69.7	--	--	--	--	97	--	--	10/7	2.0	44
KANSAS AES	K12-2333	C	66.6	61.4	**55.0**	64.0	61.0	93	90	103	9/28	1.8	43
KANSAS AES	K13-1615	C	67.4	66.4	--	66.9	--	94	98	--	10/1	2.0	37
KANSAS AES	K4313NRRT	RR1	70.6	64.5	--	67.6	--	98	95	--	9/25	2.0	37
KANSAS AES	KS3406RR	RR1	64.2	60.7	--	62.5	--	89	89	--	9/24	1.5	36
KANSAS AES	KS4117NS	C	**74.1**	**76.2**	**56.4**	75.1	68.9	103	112	106	9/30	1.0	34
KANSAS AES	KS4313N	C	**76.7**	65.7	**55.1**	71.2	65.8	107	97	104	9/26	2.0	40
MIDLAND	3983NR2	RR2	**74.1**	--	--	--	--	103	--	--	10/1	1.5	41
MIDLAND	4328NX	RR2X	66.3	--	--	--	--	92	--	--	10/1	2.0	41
MIDLAND	4373NR2	RR2	**73.9**	--	--	--	--	103	--	--	10/1	1.8	38
MIDLAND	4677NXS	RR2X	**73.8**	--	--	--	--	103	--	--	10/10	2.0	47
MISSOURI	S13-10590C	C	67.8	--	--	--	--	95	--	--	10/4	2.0	39
MISSOURI	S13-2743C	C	69.1	--	--	--	--	96	--	--	10/2	2.0	42
MISSOURI	S13-3851C	C	71.5	--	--	--	--	100	--	--	10/2	2.0	39
MISSOURI	S14-9051R	RR1	**76.0**	--	--	--	--	106	--	--	10/7	2.0	38
MORSOY	3907RXT	RR2X	**75.5**	--	--	--	--	105	--	--	10/1	1.8	40
MORSOY	4117 RXT	RR2X	**79.5**	--	--	--	--	111	--	--	10/2	1.8	38
MORSOY	4327 RXT	RR2X	**75.6**	--	--	--	--	105	--	--	10/7	2.0	40
MORSOY	4426 RXT	RR2X	**72.8**	--	--	--	--	101	--	--	10/7	2.0	42
MORSOY	4535 RXT	RR2X	**77.0**	--	--	--	--	107	--	--	10/7	2.0	46
MORSOY	4667 RXT	RR2X	70.7	--	--	--	--	98	--	--	10/9	2.0	41
WILLCROSS	WX1441NLL	LL	64.8	--	--	--	--	90	--	--	10/1	1.5	38
WILLCROSS	WX1445NLL	LL	**73.0**	--	--	--	--	102	--	--	10/3	1.5	37
WILLCROSS	WXE3377N	RR2X	68.5	--	--	--	--	95	--	--	9/25	2.0	38
WILLCROSS	WXE3386N	RR2X	**76.6**	--	--	--	--	107	--	--	9/26	1.8	40
WILLCROSS	WXE3437N	RR2X	**76.0**	--	--	--	--	106	--	--	10/4	2.0	41
WILLCROSS	WXE3446NS	RR2X	**78.3**	--	--	--	--	109	--	--	10/8	2.0	42
	AVERAGES		71.8	67.9	53.2								
	CV (%)		8.2	5.7	8.6								
	LSD (0.10)		6.9	4.5	5.4								

Values in bold are in the upper LSD group.

Table 6. Ottawa, Franklin County Dryland Soybean Performance Test, Maturity Groups IV-V, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ARKANSAS	OSAGE	C	70.5	77.4	58.2	73.9	68.7	100	104	107	10/23	2.5	37
ARKANSAS	R09-430	C	73.2			76.6	70.7	104	108	108	10/22	2.5	34
ARKANSAS	R13-1019	C	54.7	--	--	--	--	78	--	--	10/21	3.0	44
ARKANSAS	UA 5014C	C	62.6	64.9	56.3	63.8	61.3	89	87	103	10/19	1.8	38
ASGROW	AG5335	RR2Y	73.5	78.4	58.3	75.9	70.0	104	106	107	10/19	1.0	43
CREDENZ	CZ 4748 LL	LL	71.9	--	--	--	--	102	--	--	10/17	1.0	40
CREDENZ	CZ 4918 LL	LL	**84.0**	--	--	--	--	119	--	--	10/19	1.0	38
CREDENZ	CZ 4938 LL	LL	72.8	--	--	--	--	104	--	--	10/18	1.0	45
CREDENZ	HBK LL4953	LL	70.0	--	56.1	--	--	100	--	103	10/20	1.8	39
MIDLAND	4956NXS	RR2X	72.0	--	--	--	--	102	--	--	10/17	1.5	46
MIDLAND	4963NRS2	RR2	74.0	--	--	--	--	105	--	--	10/17	1.3	43
MISSOURI	S13-1805C	C	60.0	--	--	--	--	85	--	--	10/20	4.0	40
MORSOY	4706 RXT	RR2X	72.0	--	--	--	--	102	--	--	10/16	1.8	45
MORSOY	4737 RXT	RR2X	74.4	--	--	--	--	106	--	--	10/18	1.3	44
	AVERAGES		70.4	74.3	54.5								
	CV (%)		8.8	6.0	8.5								
	LSD (0.10)		7.4	5.3	5.5								

Values in bold are in the upper LSD group.

Southeast Agricultural Research Center, Columbus, Cherokee County; Lonnie Mengarelli, research technician

Parsons Silt Loam

Extremely wet spring. Cool and moist summer. Cool and moist fall. Dry down took longer than normal.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	11.4	8.4	3.8	5.5	8.1	2.6	45.8

Planted 6/28/2017 at 122,000 seeds/ft; harvested 11/21/2017; 14 ft. by 4-row plot; pesticides: 2 pt/ac gramoxone, 2 pt Dual II Mag, 1.5 lb metrobuzin, 6 oz Athority XL

Table 7. Columbus, Cherokee County Dryland Soybean Performance Test, Maturity Groups III-IV, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	40.2	**55.2**	53.8	47.7	--	86	103	94	10/9	1.0	28
ASGROW	AG4232	RR2Y	50.6	**58.1**	**60.7**	54.3	56.4	108	109	106	10/18	1.0	32
CHECK	MG3.5	RR	37.9	52.2	54.3	45.1	48.2	81	98	95	10/8	1.0	26
CHECK	MG3.9	RR	40.3	52.6	57.3	46.4	50.0	86	99	100	10/14	1.0	25
CHECK	MG4.2	RR	46.4	53.1	--	49.8	--	99	100	--	10/16	1.0	26
CHECK	MG4.5	RR	46.7	53.6	--	50.2	--	100	101	--	10/16	1.0	28
CREDENZ	CZ 3841 LL	LL	38.1	--	--	--	--	81	--	--	10/8	1.0	28
CREDENZ	CZ 4105 LL	LL	42.2	--	--	--	--	90	--	--	10/16	1.0	26
CREDENZ	CZ 4222 LL	LL	45.3	--	--	--	--	97	--	--	10/18	1.0	26
CREDENZ	CZ 4308 LL	LL	49.9	--	--	--	--	107	--	--	10/18	1.0	26
CREDENZ	CZ 4548 LL	LL	44.4	--	--	--	--	95	--	--	10/18	1.0	26
MIDLAND	4677NXS	RR2X	**51.7**	**58.1**	--	54.9	--	111	109	--	10/24	1.0	33
MISSOURI	S13-10590C	C	45.4	--	--	--	--	97	--	--	10/17	1.0	28
MISSOURI	S13-2743C	C	44.1	--	--	--	--	94	--	--	10/18	1.0	27
MISSOURI	S13-3851C	C	49.9	--	--	--	--	107	--	--	10/18	1.0	25
MISSOURI	S14-9051R	RR1	49.7	--	--	--	--	106	--	--	10/20	1.0	24
MORSOY	4426 RXT	RR2X	**53.0**	**55.9**	--	--	--	113	105	--	10/26	1.0	29
MORSOY	4535 RXT	RR2X	**55.1**	**60.4**	--	57.8	--	118	113	--	10/20	1.0	29
MORSOY	4667 RXT	RR2X	51.5	--	--	--	--	110	--	--	10/24	1.0	30
WILLCROSS	WXE3466NS	RR2X	**53.1**	**54.6**	--	53.9	--	113	102	--	10/24	1.0	32
	AVERAGES		46.8	53.4	57.0								
	CV (%)		6.8	9.5	3.9								
	LSD (0.10)		3.5	6.0	3.2								

Values in bold are in the upper LSD group.

Table 8. Columbus, Cherokee County Dryland Soybean Performance Test, Maturity Groups IV-V, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ARKANSAS	OSAGE	C	**52.9**	--	--	--	--	106	--	--	10/29	1.0	26
ARKANSAS	R09-430	C	**52.9**	--	--	--	--	106	--	--	10/26	1.0	26
ARKANSAS	R13-1019	C	48.9	--	--	--	--	99	--	--	10/26	1.0	29
ARKANSAS	UA 5014C	C	**51.0**	--	--	--	--	103	--	--	10/25	1.0	29
ARKANSAS	UA 5414RR	RR1	49.5	53.0	--	51.3	--	100	97	--	10/28	1.0	30
ASGROW	AG5335	RR2Y	**51.7**	56.9	65.1	54.3	57.9	104	104	110	10/25	1.0	31
CHECK	MG4.9	RR	49.1	57.0	62.0	53.0	56.0	99	104	104	10/24	1.0	29
CREDENZ	CZ 4748 LL	LL	48.7	--	--	--	--	98	--	--	10/22	1.0	29
CREDENZ	CZ 4918 LL	LL	49.2	--	--	--	--	99	--	--	10/21	1.0	26
CREDENZ	CZ 4938 LL	LL	**53.0**	--	--	--	--	107	--	--	10/29	1.0	30
CREDENZ	HBK LL4953	LL	**54.3**	--	--	--	--	109	--	--	10/29	1.0	28
EMERGE GENETICS	e4892s	C	46.3	--	--	--	--	93	--	--	10/21	1.0	26
EMERGE GENETICS	e4993	C	**54.4**	--	--	--	--	110	--	--	10/24	1.0	30
EMERGE GENETICS	e4996	C	49.7	--	--	--	--	100	--	--	10/22	1.0	27
EMERGE GENETICS	N4746s	C	49.5	--	--	--	--	100	--	--	10/19	1.0	26
EMERGE GENETICS	T4846s	C	48.1	--	--	--	--	97	--	--	10/19	1.0	27
KANSAS AES	K12-1348	C	47.0	--	--	--	--	95	--	--	10/28	1.0	30
KANSAS AES	K12-1355	C	**52.9**	--	--	--	--	106	--	--	10/26	1.0	29
KANSAS AES	K13-1830	C	47.7	--	--	--	--	96	--	--	10/28	1.0	29
KANSAS AES	KS5004N	C	43.7	--	--	--	--	88	--	--	10/24	1.0	31
KANSAS AES	KS5502N	C	49.2	--	--	--	--	99	--	--	10/29	1.0	28
KANSAS AES	KS5507NRR	RR1	47.4	--	--	--	--	95	--	--	10/29	1.0	28
MIDLAND	4797NRS2	RR2	46.6	53.4	--	50.0	--	94	97	--	10/27	1.0	32
MIDLAND	4956NXS	RR2X	**51.2**	**57.6**	--	54.4	--	103	105	--	10/27	1.0	31
MIDLAND	4963NRS2	RR2	**53.0**			56.1	58.0	107	108	104	10/22	1.0	29
MISSOURI	S13-1805C	C	**51.4**	--	--	--	--	104	--	--	10/27	1.0	27
MISSOURI	S13-1955C	C	**51.6**	--	--	--	--	104	--	--	10/29	1.0	30
MORSOY	4706 RXT	RR2X	50.3	**57.8**	--	54.0	--	101	105	--	10/27	1.0	31
MORSOY	4737 RXT	RR2X	**52.3**	--	--	--	--	105	--	--	10/28	1.0	29
MORSOY	4857 RXT	RR2X	47.1	--	--	--	--	95	--	--	10/21	1.0	27
MORSOY	4997 RXT	RR2X	45.2	--	--	--	--	91	--	--	10/26	1.0	30
WILLCROSS	WX1745NLL	LL	46.5	--	--	--	--	94	--	--	10/22	1.0	27
WILLCROSS	WXE3487NS	RR2X	48.8	--	--	--	--	98	--	--	10/21	1.0	28
WILLCROSS	WXE3497NS	RR2X	50.7	--	--	--	--	102	--	--	10/27	1.0	30
WILLCROSS	WXE3517NS	RR2X	47.1	--	--	--	--	95	--	--	10/26	1.0	32
	AVERAGES		49.7	54.9	59.4								
	CV (%)		6.0	5.8	6.4								
	LSD (0.10)		3.5	3.8	4.5								

Values in bold are in the upper LSD group.

Dale Roberds Farm, Pittsburg, Cherokee County; Bill Schapaugh, agronomist

Parsons Silt Loam

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	9.9	8.3	4.0	2.4	5.7	2.8	38.2

Planting conditions were good with excellent stands. Following emerge soil moisture increased and remained saturated for several weeks. Likely because of this excessive moisture, soybean varieties in the test that were not resistant to STS herbicides were stunted during vegetative development from residual herbicide. Results from those entries were deleted from the test. Growing conditions were hot and dry during late vegetative and early reproductive development, but conditions were favorable during pod development and seed fill, especially for the maturity group 4 late and 5 varieties.

Planted 6/12/2017 at 155,000 seeds/ft; harvested 11/9/2017; 24 ft. by 4-row plot; pesticides: Pre-emerge: Trivence

Table 9. Pittsburg, Cherokee County No-Till Soybean Performance Test, Maturity Groups III-IV, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG4232	RR2Y	51.5	57.2	47.8	54.4	52.2	94	97	97	10/11	2.0	38
DYNA-GRO	S46XS87	RR2X	49.8	--	--	--	--	91	--	--	10/16	2.3	41
MIDLAND	4677NXS	RR2X	**55.9**	**62.8**	--	--	--	102	106	--	10/17	2.0	42
MORSOY	4426 RXT	RR2X	**57.6**	**65.0**	--	--	--	105	110	--	10/15	2.0	38
MORSOY	4535 RXT	RR2X	51.0	58.0	--	--	--	93	98	--	10/11	2.0	40
MORSOY	4667 RXT	RR2X	**58.6**	--	--	--	--	107	--	--	10/14	2.0	39
WILLCROSS	WXE3466NS	RR2X	**57.8**	--	--	--	--	106	--	--	10/16	2.0	40
	AVERAGES		**54.6**	59.3	49.1								
	CV (%)		9.9	7.2	7.6								
	LSD (0.10)		4.4	5.1	4.4								

Values in bold are in the upper LSD group.

Table 10. Pittsburg, Cherokee County No-Till Soybean Performance Test, Maturity Groups IV-V, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG5335	RR2Y	51.6	**63.5**	**52.5**	57.6	55.9	97	107	107	10/17	1.0	41
DYNA-GRO	S48XS78	RR2X	53.4	--	--	--	--	100	--	--	10/14	1.0	37
DYNA-GRO	S49XS88	RR2X	53.3	--	--	--	--	100	--	--	10/19	1.8	40
MIDLAND	4956NXS	RR2X	**61.5**	61.8	--	61.7	--	115	104	--	10/16	1.3	41
MIDLAND	4963NRS2	RR2	55.0	60.1	**53.0**	57.5	--	103	101	113	10/14	1.3	37
MORSOY	4706 RXT	RR2X	**59.7**	**64.4**	--	62.1	--	112	109	--	10/17	2.0	42
MORSOY	4737 RXT	RR2X	**58.8**	--	--	--	--	110	--	--	10/18	1.8	39
MORSOY	4857 RXT	RR2X	**57.9**	--	--	--	--	109	--	--	10/14	1.5	37
MORSOY	4997 RXT	RR2X	51.2	--	--	--	--	96	--	--	10/18	1.0	42
WILLCROSS	WXE3487NS	RR2X	53.9	--	--	--	--	101	--	--	10/14	1.0	37
WILLCROSS	WXE3497NS	RR2X	57.0	--	--	--	--	107	--	--	10/18	1.5	39
WILLCROSS	WXE3517NS	RR2X	55.6	--	--	--	--	104	--	--	10/18	2.0	43
	AVERAGES		53.3	59.3	49.1								
	CV (%)		8.3	7.2	7.6								
	LSD (0.10)		4.4	5.1	4.4								

Values in bold are in the upper LSD group.

Joe Harris Farm, Erie, Neosho County; Lonnie Mengarelli, research technician

Lanton Silt Loam

Extremely wet spring. Cool and moist summer. Cool and moist fall with killing frost on Oct. 29 which adversely influenced the yields of the maturity group 4 late and 5 varieties and prevented the recording of the maturity of dates.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	11.8	6.4	2.7	5.5	8.1	2.6	43.1

Planted 7/11/2017 at 122,000 seeds/ft; harvested 11/28/2017; ft. by 4-row plot; pesticides: Pre-emerge: 2pt/ac gramoxone Post-emerge: 22 oz Powermax, 16 oz Crop Oil Consentrate, 10 oz Cobra, 24 oz Ultra Blazer; 2 pt Dual II Mag, 1.5 lb metrobuzin, 6 oz Authority XL

Table 11. Erie, Neosho County Dryland Soybean Performance Test, Maturity Groups III-IV, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2014	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	38.8	**47.6**	--	43.2	--	85	106	--	10/23	1.0	25
ASGROW	AG4232	RR2Y	46.3	41.6	--	43.9	--	101	93	--	10/29	1.0	29
CHECK	MG3.5	RR	32.8	43.6	--	38.2	--	72	98	--	10/23	1.0	21
CHECK	MG3.9	RR	42.1	**48.6**	--	45.4	--	92	109	--	10/25	1.0	23
CHECK	MG4.2	RR	**50.0**	42.9	--	46.5	--	109	96	--	10/27	1.0	23
CHECK	MG4.5	RR	44.9	44.7	--	44.8	--	98	100	--	10/28	1.0	25
MIDLAND	4373NR2	RR2	43.6	--	--	--	--	95	--	--	10/27	1.0	25
MIDLAND	4677NXS	RR2X	**49.4**	**45.3**	--	47.3	--	108	101	--	10/29	1.0	29
MISSOURI	S14-9051R	RR1	47.6	--	--	--	--	104	--	--	10/28	1.0	24
MORSOY	4426 RXT	RR2X	**54.1**	**45.4**	--	--	--	118	--	--	10/29	1.0	27
MORSOY	4535 RXT	RR2X	**49.0**	**50.4**	--	49.7	--	107	113	--	10/29	1.0	28
MORSOY	4667 RXT	RR2X	**51.2**	--	--	--	--	112	--	--	10/29	1.0	27
	AVERAGES		45.8	44.7	43.2								
	CV (%)		12.7	10.4	9.7								
	LSD (0.10)		6.5	5.6	5.0								

Values in bold are in the upper LSD group.

Table 12. Erie, Neosho County Dryland Soybean Performance Test, Maturity Groups IV-V, 2014-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2014	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2014	Mat	Lodge score	Ht (in)
ARKANSAS	UA 5414RR	RR1	38.4	42.7	41.4	40.5	40.8	89	98	110	--	1.0	29
ASGROW	AG5335	RR2Y	46.2	41.9	--	44.1	--	107	96	--	--	1.0	30
CHECK	MG4.9	RR	46.2	42.3	--	44.3	--	107	97	--	--	1.0	29
EMERGE GENETICS	e4892s	C	37.4	--	--	--	--	86	--	--	--	1.0	24
EMERGE GENETICS	e4993	C	46.9	--	--	--	--	108	--	--	--	1.0	27
EMERGE GENETICS	e4996	C	41.7	--	--	--	--	96	--	--	--	1.0	24
EMERGE GENETICS	N4746s	C	42.4	--	--	--	--	98	--	--	--	1.0	25
EMERGE GENETICS	T4846s	C	39.7	--	--	--	--	92	--	--	--	1.0	25
KANSAS AES	K12-1348	C	35.9	--	--	--	--	83	--	--	--	1.0	24
KANSAS AES	K12-1355	C	36.5	--	--	--	--	84	--	--	--	1.0	19
KANSAS AES	K13-1830	C	39.1	--	--	--	--	90	--	--	--	1.0	18
KANSAS AES	KS5004N	C	43.2	--	--	--	--	100	--	--	--	1.0	25
KANSAS AES	KS5502N	C	37.0	--	--	--	--	85	--	--	--	1.0	22
KANSAS AES	KS5507NRR	RR1	42.1	--	--	--	--	97	--	--	--	1.0	24
MIDLAND	4797NRS2	RR2	46.0	45.3	--	45.7	--	106	104	--	--	1.0	30
MIDLAND	4956NXS	RR2X	**48.9**	48.0	--	48.5	--	113	110	--	--	1.0	30
MORSOY	4706 RXT	RR2X	**54.5**	44.4	--	49.5	--	126	102	--	--	1.0	31
MORSOY	4737 RXT	RR2X	**50.2**	--	--	--	--	116	-	--	--	1.0	30
MORSOY	4857 RXT	RR2X	**50.6**	--	--	--	--	117	-	--	--	1.0	27
MORSOY	4997 RXT	RR2X	44.0	--	--	--	--	102	-	--	--	1.0	31
	AVERAGES		43.3	43.5	37.6								
	CV (%)		11.9	9.9	12.9								
	LSD (0.10)		6.1	NS	5.8								

Values in bold are in the upper LSD group.

North Central Experiment Field, Scandia, Republic County; Andrew Esser, agronomist

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	1.5	7.3	3.9	1.8	2.0	2.7	20.3
Irrigation:			1.3	2.5	1.3	1.3	6.25

Conditions at planting were good with adequate soil moisture. Throughout the season, beans were watered when needed and towards the end of July things started to dry up. Starting early in the season, and persisting throughout the season, observed cupping on all varieties that weren't dicamba beans which was a problem in the surrounding areas.

Planted 6/9/2017 at 152,400 seeds/ft; harvested 11/6/2017; 26 ft. by 2-row plot; pesticides: Pre-emerge: 0.5 qt Rifle + 0.75 pt Salvo + 1 qt Makaze + 3.75 oz Fierce. Post-emerge: 0.6 oz First Rate + 10 oz Intensity One

Table 13. Scandia, Republic County Irrigated Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	**70.0**	**62.7**	**64.0**	66.3	--	110	105	108	--	2.3	47
ASGROW	AG4232	RR2Y	59.5	57.3	54.6	58.4	57.1	94	97	92	--	3.1	48
ASGROW	AG5335	RR2Y	53.0	--	--	--	--	83	--	--	--	2.1	50
CHECK	MG3.5	RR	64.0	**59.7**	60.8	61.8	61.5	101	100	103	--	2.7	43
CHECK	MG3.9	RR	66.0	**60.3**	59.2	63.2	61.9	104	102	100	--	2.0	41
CHECK	MG4.2	RR	61.3	**65.7**	--	63.5	--	96	111	--	--	2.0	47
CHECK	MG4.5	RR	**69.2**	**62.7**	--	65.9	--	109	105	--	--	2.0	43
CREDENZ	CZ 3548 LL	LL	62.3	--	--	--	--	98	--	--	--	2.7	41
CREDENZ	CZ 3601 LL	LL	**71.3**	--	--	--	--	112	--	--	--	2.0	41
CREDENZ	CZ 3738 LL	LL	64.3	--	--	--	--	101	--	--	--	2.0	41
CREDENZ	CZ 3841 LL	LL	66.7	--	--	--	--	105	--	--	--	2.7	45
CREDENZ	CZ 4105 LL	LL	64.7	--	--	--	--	102	--	--	--	2.0	44
CREDENZ	CZ 4222 LL	LL	**74.7**	--	--	--	--	117	--	--	--	2.3	39
CREDENZ	CZ 4308 LL	LL	59.3	--	--	--	--	93	--	--	--	2.0	46
CREDENZ	CZ 4548 LL	LL	61.3	--	--	--	--	96	--	--	--	2.0	42
DYNA-GRO	S35XT97	RR2X	62.5	--	--	--	--	98	--	--	--	2.1	37
DYNA-GRO	S37XT28	RR2X	62.0	--	--	--	--	97	--	--	--	2.1	43
DYNA-GRO	S38RY87	RR2	57.7	--	--	--	--	91	--	--	--	2.3	47
DYNA-GRO	S39XT68	RR2X	67.3	--	--	--	--	106	--	--	--	2.3	43
DYNA-GRO	S43XS27	RR2X	59.5	--	--	--	--	94	--	--	--	2.1	46
EMERGE GENETICS	e3796	C	59.0	--	--	--	--	93	--	--	--	2.3	41
EMERGE GENETICS	e4194	C	63.0	--	--	--	--	99	--	--	--	2.0	40
EMERGE GENETICS	e4394	C	57.7	--	--	--	--	91	--	--	--	2.0	43
EMERGE GENETICS	N4356S	C	63.0	--	--	--	--	99	--	--	--	2.0	37
KANSAS AES	K4313NRRT	RR1	59.1	57.3	**61.9**	58.2	59.5	93	97	105	--	2.1	43
KANSAS AES	KS4117NS	C	65.0	--	--	--	--	102	--	--	--	2.0	36
KANSAS AES	KS4313N	C	66.5	--	--	--	--	105	--	--	--	2.6	45
MIDLAND	3537NX	RR2X	**68.5**	**63.7**	--	66.1	--	108	107	--	--	2.1	41
MIDLAND	3657NR2	RR2	**73.0**	57.0	--	65.0	--	115	96	--	--	2.0	44
MIDLAND	3926NRS2	RR2	66.7	**63.7**	**61.8**	65.2	64.1	105	107	104	--	2.0	44
MIDLAND	3938NX	RR2X	**68.0**	--	--	--	--	107	--	--	--	2.1	44
MIDLAND	3983NR2	RR2	60.3	**62.3**	**61.3**	61.3	61.3	95	105	103	--	2.0	52
MIDLAND	4328NX	RR2X	59.0	--	--	--	--	93	--	--	--	1.7	46
MISSOURI	S13-10590C	C	61.7	--	--	--	--	97	--	--	--	2.0	49
MISSOURI	S13-2743C	C	61.7	--	--	--	--	97	--	--	--	2.0	47
MISSOURI	S13-3851C	C	67.0	--	--	--	--	105	--	--	--	2.3	42
MISSOURI	S14-9051R	RR1	65.0	--	--	--	--	102	--	--	--	2.0	42
PHILLIPS	348NR2X	RR2X	62.5	--	--	--	--	98	--	--	--	2.1	41
PHILLIPS	363NR2YE	RR2Y	60.7	--	55.4	--	--	95	--	94	--	2.3	46
PHILLIPS	387NR2X	RR2X	62.7	**62.3**	--	62.5	--	98	105	--	--	2.3	46
PHILLIPS	408NR2XS	RR2X	**68.0**	--	--	--	--	107	--	--	--	2.0	42
PHILLIPS	411NR2Y	RR2Y	63.0	**59.7**	**62.0**	61.3	61.5	99	100	105	--	2.0	43

Table 13 continued. Scandia, Republic County Irrigated Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
SYNGENTA	GH2981X	RR2X	59.3	--	--	--	--	93	--	--	--	3.0	40
SYNGENTA	GH3195X	RR2X	60.0	--	--	--	--	94	--	--	--	2.3	42
SYNGENTA	GH3324X	RR2X	**69.5**	--	--	--	--	109	--	--	--	2.1	50
SYNGENTA	GH3546X	RR2X	65.3	--	--	--	--	103	--	--	--	2.3	43
SYNGENTA	GH3761X	RR2X	64.3	--	--	--	--	101	--	--	--	2.0	50
SYNGENTA	GH3982X	RR2X	63.0	--	--	--	--	99	--	--	--	2.1	42
SYNGENTA	GH3985X	RR2X	57.0	--	--	--	--	90	--	--	--	2.1	44
	AVERAGES		63.7	59.4	59.2								
	CV (%)		8.3	7.8	7.4								
	LSD (0.10)		7.2	6.3	6.0								

Values in bold are in the upper LSD group.

North Central Kansas Experiment Field, Belleville, Republic County; Andrew Esser, agronomist

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	1.5	8.9	4.3	2.8	1.5	3.0	24.2

Conditions at planting were good with adequate soil moisture. Only received 2.52" of rain between July 18th and September 24th. Starting early in the season, and persisting throughout the season, observed cupping on all varieties that weren't dicamba beans which was a problem in the surrounding areas.

Planted 6/2/2017 at 142,000 seeds/ft; harvested 10/18/2017; 26 ft. by 4-row plot; pesticides: Pre-emerge: 1 qt Makaze + 1 pt Salvo + 3.75 oz Fierce. Post-emerge: 0.6 oz First Rate + 10 oz Intensity One

Table 14. Belleville, Republic County Dryland Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	**57.4**	67.6	**42.9**	62.5	--	106	105	106	--	2.0	37
ASGROW	AG4232	RR2Y	50.7	60.5	39.9	55.6	50.3	94	94	98	--	2.0	41
ASGROW	AG5335	RR2Y	49.9	--	--	--	--	93	--	--	--	1.5	41
CHECK	MG3.5	RR	50.4	65.5	33.3	58.0	49.7	93	102	82	--	1.7	31
CHECK	MG3.9	RR	**59.7**	62.9	37.1	61.3	53.2	111	98	91	--	1.7	35
CHECK	MG4.2	RR	51.7	64.9	--	58.3	--	96	101	--	--	1.7	35
CHECK	MG4.5	RR	53.0	66.4	--	59.7	--	98	103	--	--	1.5	33
CREDENZ	CZ 3548 LL	LL	**56.7**	--	--	--	--	105	--	--	--	2.0	35
CREDENZ	CZ 3601 LL	LL	**56.9**	--	--	--	--	105	--	--	--	2.0	33
CREDENZ	CZ 3738 LL	LL	52.3	--	--	--	--	97	--	--	--	1.0	30
CREDENZ	CZ 3841 LL	LL	50.7	--	--	--	--	94	--	--	--	2.0	35
CREDENZ	CZ 4105 LL	LL	49.4	--	--	--	--	92	--	--	--	1.0	32
CREDENZ	CZ 4222 LL	LL	**56.0**	--	--	--	--	104	--	--	--	2.0	34
CREDENZ	CZ 4308 LL	LL	49.3	--	--	--	--	92	--	--	--	2.0	34
CREDENZ	CZ 4548 LL	LL	47.3	--	--	--	--	88	--	--	--	1.7	35
DYNA-GRO	S35XT97	RR2X	**61.4**	--	--	--	--	114	--	--	--	2.0	34
DYNA-GRO	S37XT28	RR2X	**59.7**	--	--	--	--	111	--	--	--	2.0	38
DYNA-GRO	S38RY87	RR2	52.0	--	--	--	--	96	--	--	--	2.0	38
DYNA-GRO	S39XT68	RR2X	**55.3**	--	--	--	--	103	--	--	--	2.0	36
DYNA-GRO	S43XS27	RR2X	50.4	--	--	--	--	93	--	--	--	2.0	41
KANSAS AES	K4313NRRT	RR1	44.4	56.5	--	50.4	--	82	88	--	--	2.0	34
KANSAS AES	KS4117NS	C	**54.4**	--	--	--	--	101	--	--	--	2.0	29
MIDLAND	3537NX	RR2X	**58.7**	67.1	--	62.9	--	109	104	--	--	2.0	33
MIDLAND	3633NR2	RR2	**60.7**	64.0	38.5	62.3	54.4	113	99	95	--	2.0	38
MIDLAND	3657NR2	RR2	**57.0**	67.3	--	62.2	--	106	104	--	--	2.0	36
MIDLAND	3926NRS2	RR2	51.4	**69.8**	39.8	60.6	53.7	95	108	98	--	1.5	37
MIDLAND	3938NX	RR2X	**56.3**	--	--	--	--	104	--	--	--	2.0	36
MIDLAND	3983NR2	RR2	**54.9**	**72.4**	**42.3**	63.6	56.5	102	112	104	--	2.0	37
MIDLAND	4328NX	RR2X	**54.7**	--	--	--	--	101	--	--	--	2.0	37
MISSOURI	S14-9051R	RR1	**55.0**	--	--	--	--	102	--	--	--	1.7	34
PHILLIPS	348NR2X	RR2X	**57.3**	--	--	--	--	106	--	--	--	2.0	36
PHILLIPS	363NR2YE	RR2Y	53.9	--	**46.0**	--	--	100	--	113	--	1.5	35
PHILLIPS	387NR2X	RR2X	**55.0**	**69.7**	--	62.4	--	102	108	--	--	2.0	37
PHILLIPS	408NR2XS	RR2X	**56.7**	--	--	--	--	105	--	--	--	1.5	35
PHILLIPS	411NR2Y	RR2Y	53.0	65.5	40.1	59.2	52.8	98	102	99	--	2.0	35
SYNGENTA	GH2981X	RR2X	52.9	--	--	--	--	98	--	--	--	2.0	37
SYNGENTA	GH3195X	RR2X	**60.7**	--	--	--	--	113	--	--	--	2.0	36
SYNGENTA	GH3324X	RR2X	**54.3**	--	--	--	--	101	--	--	--	2.0	38
SYNGENTA	GH3546X	RR2X	47.0	--	--	--	--	87	--	--	--	2.0	36
SYNGENTA	GH3761X	RR2X	53.4	--	--	--	--	99	--	--	--	2.0	39
SYNGENTA	GH3985X	RR2X	**55.0**	--	--	--	--	102	--	--	--	2.0	36
	AVERAGES		54.0	64.5	40.7								
	CV (%)		9.6	5.0	9.8								
	LSD (0.10)		7.1	4.4	5.4								

Values in bold are in the upper LSD group.

Clayton Short Farm, Assaria, Saline County; Bill Schapaugh, agronomist

Ladysmith silty clay loam

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	4.8	3.6	3.8	0.6	1.7	1.2	17.8

Good planting conditions with excellent stands. Favorable temperature and moisture conditions until the beginning of flowering. Soil moisture was drying out at the onset of flowering and the field received drift from dicamba. Growing points and plants were not killed, but leaves remained wrinkled throughout the growing season. Because of the drought stress, vegetative growth following the hericide drift was limited. Dry conditions occurred throughout seed fill but below average temperatures enabled the plants to produce yields that topped out in the low 30's. Yields of the dicamba susceptible varieties may have been reduced by the dicamba drift. However, the range in yields of the dicamba resistant and susceptible varieties were similar for the test.

Planted 5/15/2017 at 155,000 seeds/ft; harvested 10/18/2017; 12 ft. by 4-row plot; pesticides: Pre-emerge: Treflan

Table 15. Assaria, Saline County Dryland Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	28.7	52.0	**52.8**	40.3	--	92	89	114	9/13	1.0	24
ASGROW	AG4232	RR2Y	**32.6**	**63.2**	44.8	47.9	46.9	105	108	97	9/25	1.0	31
ASGROW	AG5335	RR2Y	**31.8**	--	--	--	--	102	--	--	10/6	1.0	33
CHECK	MG3.5	RR	30.0	55.0	50.1	42.5	45.0	96	94	108	9/15	1.0	25
CHECK	MG3.9	RR	28.0	62.4	**51.0**	45.2	47.1	90	107	110	9/21	1.0	26
CHECK	MG4.2	RR	**33.3**	60.5	--	46.9	--	107	103	--	9/22	1.0	29
CHECK	MG4.5	RR	**32.9**	59.4	--	46.1	--	106	101	--	9/25	1.0	29
DYNA-GRO	S39XT68	RR2X	30.4	--	--	--	--	98	--	--	9/19	1.0	26
DYNA-GRO	S43XS27	RR2X	**31.7**	--	--	--	--	102	--	--	9/28	1.0	32
DYNA-GRO	S46XS87	RR2X	**30.7**	--	--	--	--	99	--	--	10/5	1.0	37
KANSAS AES	K12-2333	C	**31.8**	--	--	--	--	102	--	--	9/23	1.0	28
KANSAS AES	K13-1615	C	30.0	--	--	--	--	96	--	--	9/16	1.0	26
KANSAS AES	K4313NRRT	RR1	27.9	--	--	--	--	90	--	--	9/15	1.0	24
KANSAS AES	KS3406RR	RR1	**31.1**	--	--	--	--	100	--	--	9/15	1.0	27
KANSAS AES	KS4117NS	C	**30.9**	--	--	--	--	99	--	--	9/19	1.0	23
KANSAS AES	KS4313N	C	30.5	--	--	--	--	98	--	--	9/15	1.0	27
MISSOURI	S14-9051R	RR1	**31.2**	--	--	--	--	100	--	--	9/26	1.0	25
PHILLIPS	387NR2X	RR2X	30.4	57.3	--	43.8	--	98	98	--	9/19	1.0	26
PHILLIPS	408NR2XS	RR2X	**33.0**	--	--	--	--	106	--	--	9/22	1.0	25
PHILLIPS	411NR2Y	RR2Y	**33.0**	55.4	**51.4**	44.2	46.6	106	95	111	9/21	1.0	26
PHILLIPS	454R2YSE	RR2Y	**31.2**	56.5	44.8	43.8	44.1	100	96	96	9/25	1.0	28
PHILLIPS	456NR2XS	RR2X	**33.1**	**66.4**	--	49.8	--	106	113	--	9/25	1.0	33
PHILLIPS	478NR2XSE	RR2X	**32.0**	--	--	--	--	103	--	--	10/3	1.0	34
SYNGENTA	GH3761X	RR2X	**32.4**	--	--	--	--	104	--	--	9/16	1.0	33
SYNGENTA	GH3985X	RR2X	28.7	--	--	--	--	92	--	--	9/18	1.0	28
SYNGENTA	GH4142X	RR2X	30.1	--	--	--	--	97	--	--	9/21	1.0	28
SYNGENTA	GH4307X	RR2X	**31.6**	--	--	--	--	102	--	--	9/20	1.0	30
SYNGENTA	GH4542X	RR2X	**31.2**	--	--	--	--	100	--	--	9/23	1.0	24
	AVERAGES		**31.1**	58.6	46.4								
	CV (%)		7.1	5.0	9.2								
	LSD (0.10)		2.6	3.5	5.1								

Values in bold are in the upper LSD group.

Northwest Research-Extension Center, Colby, Thomas County; Rob Aiken, agronomist

Good planting conditions with excellent stands. Favorable temperatures with above average rainfall throughout the growing season.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	2.2	7.8	2.1	2.6	2.7	3.3	21.7
Irrigation:			1.9	5.8	3.8	2.9	14.4

Planted 5/24/2017 at 180,000 seeds/ft; harvested 10/23/2017; 12 ft. by 2-row plot; pesticides: none

Table 16. Colby, Thomas County Irrigated Soybean Performance Test, 2015-2017

			ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2017		
BRAND	NAME	TRAIT	2017	2016	2015	2-Yr. AVG.	3-Yr. AVG.	2017	2016	2015	Mat	Lodge score	Ht (in)
ASGROW	AG3432	RR2Y	76.3	78.4	**79.2**	77.4	--	101	104	107	9/21	2.3	41
ASGROW	AG4232	RR2Y	73.7	74.5	69.6	74.1	72.6	97	99	94	10/5	3.3	36
CHECK	MG3.5	RR	70.1	77.3	72.5	73.7	73.3	93	102	97	10/1	1.0	36
CHECK	MG3.9	RR	76.4	**85.3**	**81.0**	80.8	80.9	101	113	109	10/3	2.0	37
CHECK	MG4.2	RR	76.2	**82.9**	--	79.6	--	101	110	--	10/3	2.3	41
CHECK	MG4.5	RR	77.0	76.8	--	76.9	--	102	102	--	10/7	2.3	39
KANSAS AES	K4313NRRT	RR1	62.7	69.7	73.0	66.2	68.5	83	92	98	10/4	5.0	30
KANSAS AES	KS4117NS	C	73.2	--	--	--	--	97	--	--	10/1	2.5	34
LG SEEDS	C3026RX	RR2X	79.2	--	--	--	--	104	--	--	9/18	1.3	46
LG SEEDS	C3333RX	RR2X	78.0	69.9	--	74.0	--	103	93	--	9/23	1.0	39
LG SEEDS	C3489RX	RR2X	78.7	--	--	--	--	104	--	--	9/21	1.3	42
LG SEEDS	C3550RX	RR2X	**81.2**	78.8	--	80.0	--	107	105	--	9/24	1.5	43
LG SEEDS	C3775RX	RR2X	**84.4**	--	--	--	--	111	--	--	9/23	1.0	43
LG SEEDS	C3985RX	RR2X	75.3	--	--	--	--	99	--	--	10/6	1.3	44
LG SEEDS	C4227RX	RR2X	76.6	--	--	--	--	101	--	--	10/6	1.5	43
LG SEEDS	C4458RX	RR2X	72.6	--	--	--	--	96	--	--	10/2	2.0	48
MISSOURI	S14-9051R	RR1	69.8	--	--	--	--	92	--	--	10/4	2.5	39
PHILLIPS	348NR2X	RR2X	**80.0**	--	--	--	--	106	--	--	9/22	1.3	40
PHILLIPS	363NR2YE	RR2Y	75.3	--	81.3	--	--	99	--	109	9/30	2.3	40
PHILLIPS	387NR2X	RR2X	78.5	--	--	--	--	104	--	--	10/6	1.3	44
PHILLIPS	408NR2XS	RR2X	78.1	--	--	--	--	103	--	--	10/3	1.3	42
PHILLIPS	411NR2Y	RR2Y	73.4	71.4	--	72.4	--	97	95	--	10/7	2.0	39
	AVERAGES		75.8	75.4	74.4								
	CV (%)		5.9	6.6	7.9								
	LSD (0.10)		5.1	5.8	6.9								

Values in bold are in the upper LSD group.

Table 17. Yield as a Percentage of Test Average from 2017 Soybean Tests

BRAND/NAME	Emmett	Kiro dryland	Topeka irrigated	Ottawa MG4	Ottawa MG 5	Columbus MG4	Columbus MG 5	Pittsburg MG 4	Pittsburg MG 5	Erie MG 4	Erie MG 5	Scandia	Belle-ville	Assaria	Hutch-inson	Colby	AVG
ARKANSAS																	
OSAGE	--	--	--	--	100	--	106	--	--	--	--	--	--	--	--	--	103
R09-430	--	--	--	--	104	--	106	--	--	--	--	--	--	--	--	--	105
R13-1019	--	--	--	--	78	--	99	--	--	--	--	--	--	--	--	--	88
UA 5014C	--	--	--	--	89	--	103	--	--	--	--	--	--	--	--	--	96
UA 5414RR	--	--	--	--	--	--	100	--	--	--	89	--	--	--	--	--	94
ASGROW																	
AG3432	102	100	94	100	--	86	--	--	--	85	--	110	106	92	--	101	98
AG4232	104	106	86	110	--	108	--	94	--	101	--	94	94	105	--	97	100
AG5335	101	--	--	--	104	--	104	--	97	--	107	83	93	102	--	--	99
CHECK																	
MG3.5	97	101	96	101	--	81	--	--	--	72	--	101	93	96	--	93	93
MG3.9	102	110	102	107	--	86	--	--	--	92	--	104	111	90	--	101	100
MG4.2	97	107	104	105	--	99	--	--	--	109	--	96	96	107	--	101	102
MG4.5	102	110	110	101	--	100	--	--	--	98	--	109	98	106	--	102	104
MG4.9	--	--	--	--	--	--	99	--	--	--	107	--	--	--	--	--	103
CREDENZ																	
CZ 3548 LL	107	--	102	--	--	--	--	--	--	--	--	98	105	--	--	--	103
CZ 3601 LL	100	--	116	--	--	--	--	--	--	--	--	112	105	--	--	--	108
CZ 3738 LL	98	--	108	--	--	--	--	--	--	--	--	101	97	--	--	--	101
CZ 3841 LL	100	--	118	99	--	81	--	--	--	--	--	105	94	--	--	--	99
CZ 3945LL	--	98	--	96	--	--	--	--	--	--	--	--	--	--	--	--	97
CZ 4105 LL	103	--	103	92	--	90	--	--	--	--	--	102	92	--	--	--	97
CZ 4222 LL	99	--	107	100	--	97	--	--	--	--	--	117	104	--	--	--	104
CZ 4308 LL	102	--	102	102	--	107	--	--	--	--	--	93	92	--	--	--	100
CZ 4540LL	--	81	--	84	--	--	--	--	--	--	--	--	--	--	--	--	82
CZ 4548 LL	98	--	91	99	--	95	--	--	--	--	--	96	88	--	--	--	94
CZ 4748 LL	--	--	--	--	102	--	98	--	--	--	--	--	--	--	--	--	100
CZ 4918 LL	--	--	--	--	119	--	99	--	--	--	--	--	--	--	--	--	109
CZ 4938 LL	--	--	--	--	104	--	107	--	--	--	--	--	--	--	--	--	105
HBK LL4953	--	--	--	--	100	--	109	--	--	--	--	--	--	--	--	--	104
DYNA-GRO																	
S35XT97	--	--	--	--	--	--	--	--	--	--	--	98	114	--	--	--	106
S37XT28	--	--	--	--	--	--	--	--	--	--	--	97	111	--	--	--	104
S38RY87	--	--	--	--	--	--	--	--	--	--	--	91	96	--	--	--	94
S39XT68	--	--	--	--	--	--	--	--	--	--	--	106	103	98	--	--	102
S43XS27	--	--	--	--	--	--	--	--	--	--	--	94	93	102	--	--	96
S46XS87	--	--	--	--	--	--	--	91	--	--	--	--	--	99	--	--	95
S48XS78	--	--	--	--	--	--	--	--	100	--	--	--	--	--	--	--	100
S49XS88	--	--	--	--	--	--	--	--	100	--	--	--	--	--	--	--	100
EMERGE GENETICS																	
e3796	95	93	--	92	--	--	--	--	--	--	--	93	--	--	--	--	93
e4194	93	--	--	--	--	--	--	--	--	--	--	99	--	--	--	--	96
e4394	97	94	--	95	--	--	--	--	--	--	--	91	--	--	--	--	94
e4892s	--	--	--	--	--	--	93	--	--	--	86	--	--	--	--	--	89
e4993	--	--	--	--	--	--	110	--	--	--	108	--	--	--	--	--	109
e4996	--	--	--	--	--	--	100	--	--	--	96	--	--	--	--	--	94
N4356S	89	--	--	--	--	--	--	--	--	--	--	99	--	--	--	--	94
N4746s	--	--	--	--	--	--	100	--	--	--	98	--	--	--	--	--	95
T4846s	--	--	--	--	--	--	97	--	--	--	92	--	--	--	--	--	91

Table 17 continued. Yield as a Percentage of Test Average from 2017 Soybean Tests

BRAND/NAME	Emmett	Kiro dryland	Topeka irrigated	Ottawa MG4	Ottawa MG 5	Columbus MG4	Columbus MG 5	Pittsburg MG 4	Pittsburg MG 5	Erie MG 4	Erie MG 5	Scandia	Belle-ville	Assaria	Hutch-inson	Colby	AVG
FRONTIER SEED																	
3SR92	96	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96
4FR10	100	--	--	98	--	--	--	--	--	--	--	--	--	--	--	--	99
4FR62	--	--	--	97	--	--	--	--	--	--	--	--	--	--	--	--	97
KANSAS AES																	
K12-1348	--	--	--	--	--	--	95	--	--	--	83	--	--	--	--	--	89
K12-1355	--	--	--	--	--	--	106	--	--	--	84	--	--	--	--	--	95
K12-2333	91	91	86	93	--	--	--	--	--	--	--	--	--	102	--	--	93
K13-1615	95	103	--	94	--	--	--	--	--	--	--	--	--	96	--	--	97
K13-1830	--	--	--	--	--	--	96	--	--	--	90	--	--	--	--	--	93
K4313NRRT	92	98	87	98	--	--	--	--	--	--	--	93	82	90	--	83	90
KS3406RR	92	87	--	89	--	--	--	--	--	--	--	--	--	100	--	--	92
KS4117NS	95	105	98	103	--	--	--	--	--	--	--	102	101	99	--	97	100
KS4313N	95	104	--	107	--	--	--	--	--	--	--	105	--	98	--	--	102
KS5004N	--	--	--	--	--	--	88	--	--	--	100	--	--	--	--	--	94
KS5502N	--	--	--	--	--	--	99	--	--	--	85	--	--	--	--	--	92
KS5507NRR	--	--	--	--	--	--	95	--	--	--	97	--	--	--	--	--	96
LG SEEDS																	
C3026RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104	104
C3333RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	103	103
C3489RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104	104
C3550RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	107	107
C3775RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	111	111
C3985RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	99	99
C4227RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	101
C4458RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	96	96
MIDLAND																	
3537NX	109	106	106	--	--	--	--	--	--	--	--	108	109	--	--	--	107
3633NR2	--	--	--	--	--	--	--	--	--	--	--	--	113	--	--	--	113
3657NR2	104	98	92	--	--	--	--	--	--	--	--	115	106	--	--	--	103
3926NRS2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	108	--	103
3926NRS2	103	112	102	--	--	--	--	--	--	--	--	105	95	--	--	--	103
3938NX	112	105	113	--	--	--	--	--	--	--	--	107	104	--	--	--	108
3983NR2	104	93	99	103	--	--	--	--	--	--	--	95	102	--	--	--	99
4328NX	110	99	93	92	--	--	--	--	--	--	--	93	101	--	--	--	98
4373NR2	--	100	--	103	--	--	--	--	--	95	--	--	--	--	--	--	99
4677NXS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98	--	106
4677NXS	--	--	--	103	--	111	--	102	--	108	--	--	--	--	--	--	106
4797NRS2	--	--	--	--	--	--	94	--	--	--	106	--	--	--	--	--	100
4956NXS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	92	--	108
4956NXS	--	--	--	--	102	--	103	--	115	--	113	--	--	--	--	--	108
4963NRS2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105	--	105
4963NRS2	--	--	--	--	105	--	107	--	103	--	--	--	--	--	--	--	105
MISSOURI																	
S13-10590C	--	--	--	95	--	97	--	--	--	--	--	97	--	--	--	--	96
S13-1805C	--	--	--	--	85	--	104	--	--	--	--	--	--	--	--	--	94
S13-1955C	--	--	--	--	--	--	104	--	--	--	--	--	--	--	--	--	104
S13-2743C	--	--	--	96	--	94	--	--	--	--	--	97	--	--	--	--	96
S13-3851C	--	--	--	100	--	107	--	--	--	--	--	105	--	--	--	--	104
S14-9051R	97	113	107	106	--	106	--	--	--	104	--	102	102	100	--	92	103

Table 17 continued. Yield as a Percentage of Test Average from 2017 Soybean Tests

BRAND/NAME	Emmett	Kiro dryland	Topeka irrigated	Ottawa MG4	Ottawa MG 5	Columbus MG4	Columbus MG 5	Pittsburg MG 4	Pittsburg MG 5	Erie MG 4	Erie MG 5	Scandia	Belle-ville	Assaria	Hutch-inson	Colby	AVG
MORSOY																	
3907RXT	115	97	110	105	--	--	--	--	--	--	--	--	--	--	--	--	107
4117 RXT	104	101	102	111	--	--	--	--	--	--	--	--	--	--	--	--	104
4327 RXT	--	96	84	105	--	--	--	--	--	--	--	--	--	--	--	--	95
4426 RXT	--	102	103	101	--	113	--	105	--	118	--	--	--	--	--	--	107
4535 RXT	--	98	77	107	--	118	--	93	--	107	--	--	--	--	--	--	100
4667 RXT	--	--	--	98	--	110	--	107	--	112	--	--	--	--	--	--	107
4706 RXT	--	--	--	--	102	--	101	--	112	--	126	--	--	--	--	--	110
4737 RXT	--	--	--	--	106	--	105	--	110	--	116	--	--	--	--	--	109
4857 RXT	--	--	--	--	--	--	95	--	109	--	117	--	--	--	--	--	107
4997 RXT	--	--	--	--	--	--	91	--	96	--	102	--	--	--	--	--	96
PHILLIPS																	
348NR2X	--	--	--	--	--	--	--	--	--	--	--	98	106	--	--	106	103
363NR2YE	--	--	--	--	--	--	--	--	--	--	--	95	100	--	--	99	98
387NR2X	--	--	--	--	--	--	--	--	--	--	--	--	--	--	115	--	100
387NR2X	--	--	--	--	--	--	--	--	--	--	--	98	102	98	--	104	100
408NR2XS	--	--	--	--	--	--	--	--	--	--	--	107	105	106	--	103	105
411NR2Y	--	--	--	--	--	--	--	--	--	--	--	--	--	--	109	--	100
411NR2Y	--	--	--	--	--	--	--	--	--	--	--	99	98	106	--	97	100
454R2YSE	--	--	--	--	--	--	--	--	--	--	--	--	--	--	102	--	100
454R2YSE	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--	100
456NR2XS	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105	--	106
456NR2XS	--	--	--	--	--	--	--	--	--	--	--	--	--	106	--	--	106
478NR2XSE	--	--	--	--	--	--	--	--	--	--	--	--	--	103	--	--	103
SYNGENTA																	
GH2981X	--	--	--	--	--	--	--	--	--	--	--	93	98	--	--	--	96
GH3195X	--	--	--	--	--	--	--	--	--	--	--	94	113	--	--	--	103
GH3324X	--	--	--	--	--	--	--	--	--	--	--	109	101	--	--	--	105
GH3546X	--	--	--	--	--	--	--	--	--	--	--	103	87	--	--	--	95
GH3761X	--	--	--	--	--	--	--	--	--	--	--	101	99	104	--	--	101
GH3982X	--	--	--	--	--	--	--	--	--	--	--	99	--	--	--	--	99
GH3985X	--	--	--	--	--	--	--	--	--	--	--	90	102	92	--	--	95
GH4142X	--	--	--	--	--	--	--	--	--	--	--	--	--	97	--	--	97
GH4307X	--	--	--	--	--	--	--	--	--	--	--	--	--	102	--	--	102
GH4542X	--	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--	100
NK S39-T3	--	107	100	--	--	--	--	--	--	--	--	--	--	--	--	--	103
WILLCROSS																	
WX1441NLL	--	--	--	90	--	--	--	--	--	--	--	--	--	--	--	--	90
WX1445NLL	--	--	--	102	--	--	--	--	--	--	--	--	--	--	--	--	102
WX1745NLL	--	--	--	--	--	--	94	--	--	--	--	--	--	--	--	--	94
WXE3367N	98	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98
WXE3377N	102	95	105	95	--	--	--	--	--	--	--	--	--	--	--	--	99
WXE3386N	104	99	105	107	--	--	--	--	--	--	--	--	--	--	--	--	104
WXE3437N	--	98	90	106	--	--	--	--	--	--	--	--	--	--	--	--	98
WXE3446NS	--	96	93	109	--	--	--	--	--	--	--	--	--	--	--	--	99
WXE3466NS	--	--	--	--	--	113	--	106	--	--	--	--	--	--	--	--	110
WXE3487NS	--	--	--	--	--	--	98	--	101	--	--	--	--	--	--	--	100
WXE3497NS	--	--	--	--	--	--	102	--	107	--	--	--	--	--	--	--	105
WXE3517NS	--	--	--	--	--	--	95	--	104	--	--	--	--	--	--	--	100

Table 18. Description of Entries in 2017 Soybean Performance Tests

BRAND	NAME	TRAIT	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
						R1	R3	R4	R14	Source	RR	Tolerance	
ARKANSAS	OSAGE	C	5.6	P	lb	--	--	--	--	--	--	--	--
ARKANSAS	R09-430	C	5.1	P	lb	--	--	--	--	--	--	--	--
ARKANSAS	R13-1019	C	5.2	P	Bf	--	--	--	--	--	--	--	--
ARKANSAS	UA 5014C	C	5.6	P	lb	--	--	--	--	--	--	--	--
ARKANSAS	UA 5414RR	RR1	5.0	P	Bl	--	--	--	--	--	--	--	--
ASGROW	AG3432	RR2Y	3.4	P	lb	--	MR	--	--	PI88788	S	7.0	--
ASGROW	AG4232	RR2Y	4.2	--	--	--	--	--	--	--	--	--	--
ASGROW	AG5335	RR2Y	5.3	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.1	RR	3.1	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.5	RR	3.5	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.9	RR	3.9	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.2	RR	4.2	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.5	RR	4.5	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.9	RR	4.9	--	--	--	--	--	--	--	--	--	--
CREDENZ	CZ 3548 LL	LL	3.5	P	Bl	--	--	--	--	PI88788	Rps1k	4.0	--
CREDENZ	CZ 3601 LL	LL	3.6	W	Bl	--	--	--	--	PI88788	Rps1z	3.0	--
CREDENZ	CZ 3738 LL	LL	3.7	P	lb	--	--	--	--	PI88788	Rps1c	4.0	--
CREDENZ	CZ 3841 LL	LL	3.8	W	Bl	MR	--	--	--	PI88788	1a	2.0	--
CREDENZ	CZ 3945LL	LL	3.9	--	--	--	--	--	--	PI88788	--	--	--
CREDENZ	CZ 4105 LL	LL	4.1	W	Bl	--	--	--	--	PI88788	Rps1c	3.0	--
CREDENZ	CZ 4222 LL	LL	4.2	P	Bl	--	--	--	--	PI88788	Rps1a	4.0	STS
CREDENZ	CZ 4308 LL	LL	4.3	P	Bl	--	--	--	--	PI88788	Rps1k	4.0	--
CREDENZ	CZ 4540LL	LL	4.5	--	--	--	--	--	--	PI88788	--	--	--
CREDENZ	CZ 4548 LL	LL	4.5	P	Bl	--	--	--	--	PI88788	Rps1k	4.0	STS
CREDENZ	CZ 4748 LL	LL	4.7	W	Bl	--	M	--	--	PI88788	Rps1a	3.0	--
CREDENZ	CZ 4918 LL	LL	4.9	P	Bl	--	--	--	--	PI88788	Rps1a	4.0	--
CREDENZ	CZ 4938 LL	LL	4.9	P	lb	--	--	--	--	PI88788	Rps1k	4.0	--
CREDENZ	HBK LL4953	LL	4.9	P	lb	R	--	--	--	PI88788	Rps1k	5.0	--
DYNA-GRO	S35XT97	RR2X	3.5	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S37XT28	RR2X	3.7	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S38RY87	RR2	3.8	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S39XT68	RR2X	3.9	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S43XS27	RR2X	4.3	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S46XS87	RR2X	4.6	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S48XS78	RR2X	4.8	--	--	--	--	--	--	--	--	--	--
DYNA-GRO	S49XS88	RR2X	4.9	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e3796	C	3.7	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4194	C	4.2	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4394	C	4.3	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4892s	C	4.8	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4993	C	4.9	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4996	C	4.9	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	N4356S	C	4.3	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	N4746s	C	4.7	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	T4846s	C	4.8	--	--	--	--	--	--	--	--	--	--
FRONTIER SEED	3SR92	RR	3.9	W	Bf	--	R	--	R	--	Rps1c	3.0	STS
FRONTIER SEED	49GT02	RR	4.9	P	Bl	--	--	--	--	--	--	--	--
FRONTIER SEED	4FR10	RR	4.1	--	--	R	R	--	R	--	Rps1c	3.0	--
FRONTIER SEED	4FR62	RR	4.6	W	Bl	--	R	--	--	--	Rps1c	3.0	STS
FRONTIER SEED	4SR82	RR	4.8	P	Bl	--	R	--	--	--	Rps1a	2.0	STS
KANSAS AES	K12-1348	C	5.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K12-1355	C	5.0	--	--	--	--	--	--	--	--	--	--

Table 18 continued. Description of Entries in 2017 Soybean Performance Tests

BRAND	NAME	TRAIT	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
						R1	R3	R4	R14	Source	RR	Tolerance	
KANSAS AES	K12-2333	C	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K13-1615	C	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K13-1830	C	5.0	--	--	--	R	--	--	--	--	--	--
KANSAS AES	K4313NRRT	RR1	4.0	--	--	--	R	--	MR	--	--	--	--
KANSAS AES	KS3406RR	RR1	3.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS4117NS	C	4.0	--	--	--	R	--	MR	--	--	--	STS
KANSAS AES	KS4313N	C	4.0	--	--	--	R	--	MR	--	--	--	--
KANSAS AES	KS5004N	C	5.0	--	--	--	R	--	MR	--	--	--	--
KANSAS AES	KS5502N	C	5.0	--	--	R	R	R	R	--	--	--	--
KANSAS AES	KS5507NRR	RR1	5.0	P	lb	R	R	R	R	PI437654	--	--	--
LG SEEDS	C3026RX	RR2X	3.0	P	lb	--	R	--	R	PI88788	Rps1c	--	--
LG SEEDS	C3333RX	RR2X	3.3	P	lb	--	R	--	R	PI88788	Rps1c	--	--
LG SEEDS	C3489RX	RR2X	3.4	P	lb	--	R	--	R	PI88788	Rps1c	--	--
LG SEEDS	C3550RX	RR2X	3.5	P	lb	--	R	--	R	PI88788	Rps1c	--	--
LG SEEDS	C3775RX	RR2X	3.7	P	lb	--	R	--	R	PI88788	Rps1k	--	--
LG SEEDS	C3985RX	RR2X	3.9	P	lb	--	R	--	R	PI88788	--	--	--
LG SEEDS	C4227RX	RR2X	4.2	P	lb	--	R	--	R	PI88788	--	--	--
LG SEEDS	C4458RX	RR2X	4.4	P	Bl	--	R	--	R	PI88788	Rps1c	--	--
LG SEEDS	C4615RX	RR2X	4.6	P	lb	--	R	--	R	PI88788	Rps1c	--	--
MIDLAND	3537NX	RR2X	3.5	--	--	--	R	--	MR	PI88788	--	--	--
MIDLAND	3633NR2	RR2	3.6	--	--	R	--	--	MR	PI88788	--	1.7	--
MIDLAND	3657NR2	RR2	3.6	--	--	R	--	--	MR	PI88788	--	--	--
MIDLAND	3926NRS2	RR2	3.9	--	--	R	--	--	MR	PI88788	--	2.0	--
MIDLAND	3938NX	RR2X	3.9	--	--	R	--	--	MR	PI88788	--	2.0	--
MIDLAND	3983NR2	RR2	3.9	--	--	R	--	--	MR	PI88788	--	2.0	--
MIDLAND	4328NX	RR2X	4.3	--	--	R	--	--	MR	PI88788	--	2.0	--
MIDLAND	4373NR2	RR2	4.3	--	--	R	--	--	MR	PI87788	--	2.0	--
MIDLAND	4677NXS	RR2X	4.6	--	--	R	--	--	MR	PI88788	--	2.0	RR2X
MIDLAND	4797NRS2	RR2	4.7	--	--	R	--	--	MR	PI88788	--	2.0	RR2
MIDLAND	4956NXS	RR2X	4.9	--	--	R	--	--	MR	PI88788	--	2.0	RR2X
MIDLAND	4963NRS2	RR2	4.9	--	--	R	--	--	MR	PI88788	--	2.0	STS
MISSOURI	S13-10590C	C	4.3	W	BL	--	--	--	--	--	--	--	--
MISSOURI	S13-1805C	C	4.8	W	lb	--	--	--	--	--	--	--	--
MISSOURI	S13-1955C	C	5.5	W	Bl	--	--	--	--	--	--	--	--
MISSOURI	S13-2743C	C	4.1	W	Bf	--	--	--	--	--	--	--	--
MISSOURI	S13-3851C	C	4.3	P	Bl	--	--	--	--	--	--	--	--
MISSOURI	S14-9051R	RR	4.5	W	lb	--	--	--	--	--	--	--	--
MORSOY	3907RXT	RR2X	3.9	P	lb	--	R	--	MR	PI88788	--	4.0	--
MORSOY	4117 RXT	RR2X	4.1	P	Bl	--	R	--	MR	PI88788	Rps1c	6.0	STS
MORSOY	4327 RXT	RR2X	4.3	P	lb	--	R	--	MR	PI88788	Rps1c	5.0	--
MORSOY	4426 RXT	RR2X	4.4	W	Bl	--	R	--	MR	PI88788	Rps1c	3.0	STS
MORSOY	4535 RXT	RR2X	4.5	P	lb	--	R	--	MR	PI88788	Rps1c	5.0	STS
MORSOY	4667 RXT	RR2X	4.6	W	Bl	--	R	--	MR	PI88788	Rps1c	4.0	STS
MORSOY	4706 RXT	RR2X	4.7	P	lb	--	R	--	MR	PI88788	Rps1c	4.0	STS
MORSOY	4737 RXT	RR2X	4.7	P	lb	--	R	--	MR	PI88788	Rps1c	4.0	STS
MORSOY	4857 RXT	RR2X	4.8	P	Bl	--	R	--	MR	PI88788	Rps1c	2.0	STS
MORSOY	4997 RXT	RR2X	4.9	W	Bl	--	R	--	MR	PI88788	Rps1c	5.0	STS
PHILLIPS	348NR2X	RR2X	3.4	--	--	--	--	--	--	--	--	--	--
PHILLIPS	363NR2YE	RR2Y	3.6	P	lb	--	R	--	MR	PI88788	Rps1c	7.0	--
PHILLIPS	387NR2X	RR2X	3.8	P	lb	--	R	--	R	PI88788	Rps1c	9.0	--
PHILLIPS	408NR2XS	RR2X	40.0	--	--	--	--	--	--	PI88788	--	--	--
PHILLIPS	411NR2Y	RR2Y	4.1	P	Bl	--	R	--	MR	PI88788	Rps1a	8.0	--
PHILLIPS	454R2YSE	RR2Y	4.5	P	Bl	--	--	--	--	--	Rps1c	8.0	--

Table 18 continued. Description of Entries in 2017 Soybean Performance Tests

BRAND	NAME	TRAIT	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
						R1	R3	R4	R14	Source	RR	Tolerance	
PHILLIPS	456NR2XS	RR2X	4.5	P	Bl	--	R	--	R	--	Rps1a	8.0	--
PHILLIPS	478NR2XSE	RR2X	47.0	--	--	--	--	--	--	--	--	--	--
PHILLIPS	506NR2XS	RR2X	5.0	P	Bl	--	R	--	R	--	Rps1a	8.0	--
SYNGENTA	GH2981X	RR2X	2.9	P	Bl	--	R	--	MR	PI88788	--	--	--
SYNGENTA	GH3195X	RR2X	3.1	--	--	--	--	--	--	--	--	--	--
SYNGENTA	GH3324X	RR2X	3.3	--	--	--	--	--	--	--	--	--	--
SYNGENTA	GH3546X	RR2X	3.5	--	--	--	--	--	--	--	--	--	--
SYNGENTA	GH3761X	RR2X	3.7	--	--	--	--	--	--	--	--	--	--
SYNGENTA	GH3982X	RR2X	3.9	--	--	--	--	--	--	--	--	--	--
SYNGENTA	GH3985X	RR2X	3.9	P	Ib	--	MR	--	--	PI88788	Rps1c	--	--
SYNGENTA	GH4142X	RR2X	4.1	P	Bl	--	MR	--	MR	PI88788	Rps1c	--	--
SYNGENTA	GH4307X	RR2X	4.3	P	Bl	--	R	--	MR	PI88788	Rps1c	--	--
SYNGENTA	GH4542X	RR2X	4.5	--	--	--	--	--	--	--	--	--	--
SYNGENTA	NK S39-T3	RR2Y	3.9	--	--	--	--	--	--	--	--	--	STS
WILLCROSS	WX1441NLL	LL	4.1	W	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WX1445NLL	LL	4.5	W	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WX1748NLL	LL	4.8	P	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WXE3367N	RR2X	3.6	P	Ib	--	--	--	--	--	--	--	--
WILLCROSS	WXE3377N	RR2X	3.7	P	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WXE3386N	RR2X	3.8	P	Ib	--	--	--	--	--	--	--	--
WILLCROSS	WXE3437N	RR2X	4.3	P	Ib	--	--	--	--	--	--	--	--
WILLCROSS	WXE3446NS	RR2X	4.4	W	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WXE3466NS	RR2X	4.6	P	Ib	--	--	--	--	--	--	--	--
WILLCROSS	WXE3487NS	RR2X	4.8	P	Bl	--	--	--	--	--	--	--	--
WILLCROSS	WXE3497NS	RR2X	4.9	P	Ib	--	--	--	--	--	--	--	--
WILLCROSS	WXE3517NS	RR2X	5.1	W	Bl	--	--	--	--	--	--	--	--

K-State Soybean Schools scheduled for late January

A series of three K-State Soybean Production Schools will be offered in late January 2018 to provide in-depth training targeted for soybean producers and key stakeholders. The schools will be held at three locations around the state.

The one-day schools will cover a number of issues facing soybean growers including: weed control strategies, production practices, nutrient fertility, and insect and disease management.

The dates and locations of the K-State Soybean Production Schools are:

January 22 – Phillipsburg, KS
Phillips County Fair Building, 1481 US-183
Cody Miller, Phillips-Rooks District, codym@ksu.edu, 785-543-6845

January 23 – Salina, KS
Webster Conference Center, 2601 North Ohio
Tom Maxwell, Central Kansas District, tmaxwell@ksu.edu, 785-309-5850

January 24 – Rossville, KS
Citizen Potawatomi Nation Center, 806 Nishnabe Trail
Leroy Russell, Shawnee Co., lrussell@ksu.edu, 785-232-0062

Lunch will be provided courtesy of Kansas Soybean Commission (main sponsor of the schools). The schools will also be supported by Channel Seeds. There is no cost to attend, however participants are asked to pre-register by January 17.

Online registration is available at: K-State Soybean Schools

You can also preregister by emailing or calling the local K-State Research and Extension office for the location you plan to attend.

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To access crop performance testing information electronically, visit our website. The information contained in this publication, plus more, is available for viewing or downloading at:

www.agronomy.k-state.edu/services/crop-performance-tests/index.html

Excerpts from the University Research Policy Agreement with Cooperating Seed Companies

Permission is hereby given to Kansas State University (KSU) to test varieties and/or hybrids designated on the attached entry forms in the manner indicated in the test announcements. I certify that seed submitted for testing is a true sample of the seed being offered for sale.

I understand that all results from Kansas Crop Performance Tests belong to the University and the public and shall be controlled by the University so as to produce the greatest benefit to the public. Performance data may be used in the following ways: 1) Tables may be reproduced in their entirety provided the source is referenced and data are not manipulated or reinterpreted; 2) Advertising statements by an individual company about the performance of its entries may be made as long as they are accurate statements about the data as published, with no reference to other companies' names or cultivars. In both cases, the following must be included with the reprint or ad citing the appropriate publication number and title: "See the official Kansas State University Agricultural Experiment Station and Cooperative Extension Service Report of Progress 1137, '2017 Kansas Performance Tests with Soybean Varieties,' or the Kansas Crop Performance Test website, *www.agronomy.k-state.edu/services/crop-performance-tests/index.html*, for details.

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