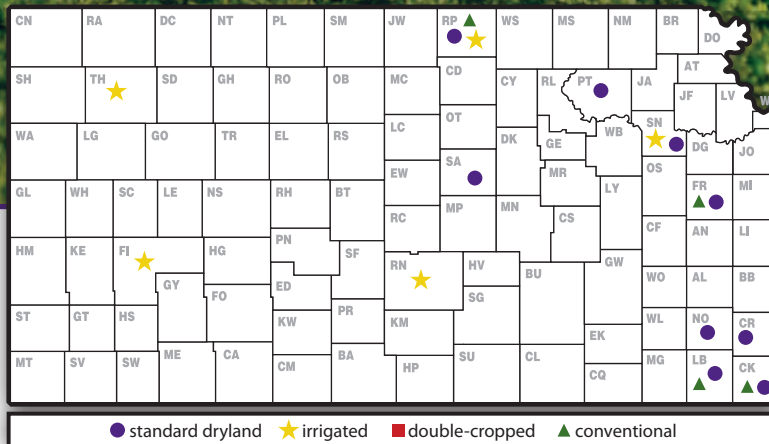
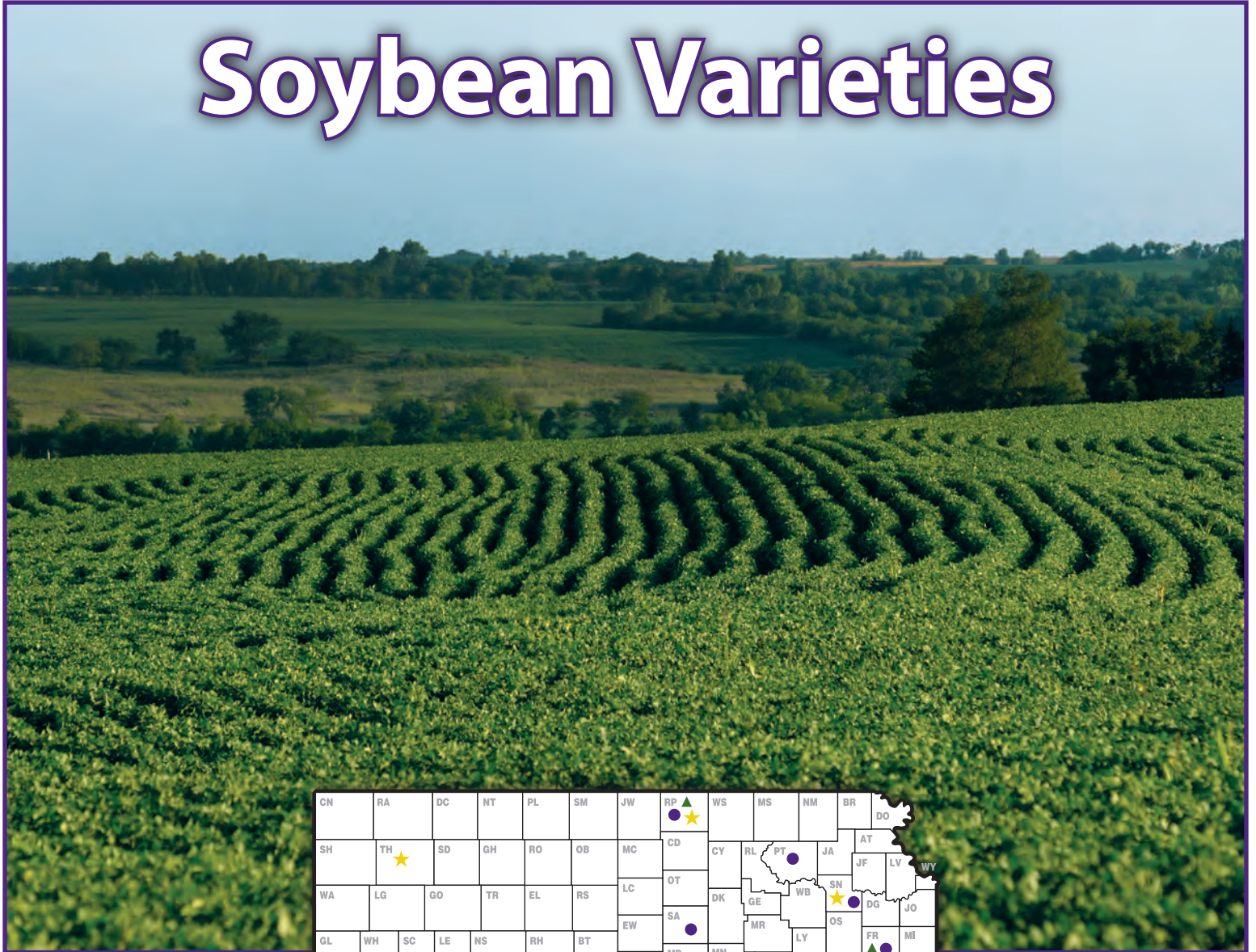


2016 Kansas Performance Tests with

Soybean Varieties



Report of Progress 1130



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2016 KANSAS SOYBEAN PERFORMANCE TESTS

STATEWIDE GROWING CONDITIONS

The 2016 soybean season had an overall very favorable weather pattern. Early-season wet conditions delayed planting during the early side of the crop planting window. Early growth was slow as it was impacted by wet soil conditions. Delay of planting date could have caused yield reductions, primarily under typically high-yielding environments (>60 bushels per acre).

During the growing season, flooding was an issue in many locations, with Sedgwick and Brown counties being particularly hard hit. Early wet conditions, saturated soils, and inhibited root growth increased production issues related to root compaction and produced yellow leaves. Hail was also a problem across the state. There were 526 reports of large hail through October 15. Of those events, 223 were reported in May. Hail has a larger impact when it occurs later in the season, September to early October during grain filling. This is when the plant depends on the leaves, potentially affecting seed set (both seed number and weight).

As related to the precipitation conditions, all divisions averaged above normal for the period of April 1 through October 15. The greatest departure was in the south central, where the divisional average was 32.17 inches or 138% of normal. Unfortunately, the rains weren't evenly distributed across the region or across the season. At the St. John station, rainfall was below normal until mid-August. A wet end to August was followed by more normal conditions in September and October.

For soybean, 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. The latest freeze events recorded weren't particularly late with Quinter dropping to 24°F on April 15. The first autumn freezes were also close to average, with Sharon Springs dropping to 28°F on October 8, and Concordia reaching 29°F on October 13.

Luckily, the below-freezing temperatures did not greatly affect soybean since only small specific areas cultivated with soybean were affected (primarily Northcentral Kansas). Temperatures below 32 degrees, more absolute temperature than duration of the cold stress, will affect the crop. Necrosis of the leaf canopy is a visible symptom of freeze damage in soybeans. Early grain filling impact, timing of the freeze effect, will proportionally produce more yield

reduction (via seed set) than if the cold stress takes place close to the end of the season.

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

Despite the abovementioned challenges, in September the U.S. Department of Agriculture forecasted a soybean yield of 44 bushels per acre for the state of Kansas for the 2016 season, overpassing the 38.5 bushels per acre recorded for the 2015 growing season (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.

Companies were invited to enter Glyphosate-resistant varieties in either the Glyphosate trials or in the conventional trials at Scandia, Ottawa, or Parsons.

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 21. Relative yields of each entry from all locations are shown in

Tables 23 and 24. Test results also can be found online at: <http://www.agronomy.k-state.edu/services/crop-performance-tests/soybean>

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.

Table 1. Entrants in the 2016 Kansas Soybean Performance

Arkansas Ag. Exp. Stn. (AES) Fayetteville, AR 479-466-2213	eMerge Genetics West Des Moines, IA 866-769-7200 emergegenetics.com	LG Seeds Elmwood, IL 309-742-2211 lgseeds.com	Morsoy MFA Incorporated Columbia, MO 573-876-5363 mfa-inc.com
Iowa State University Ames, IA 515-292-3497	Frontier Seed Warrensburg, MO 1(844)2-FRONTIER newfrontiergenetics.com	Midland (Kauffman) Haven, KS 800-634-2836 kauffmanseed.com	Phillips Seed Farms Hope, KS 785-949-2204 phillipsseed.com
Kansas Ag. Exp. Stn. (AES) Manhattan, KS 785-532-7243	Golden Harvest Brand Seed Minnetonka, MN 800-445-0956 syngentaseeds.com	Midland (Sylvester) Ottawa, KS 800-819-7333 midlandgenetics.com	Willcross NeCo Seed Farms, Inc. Garden City, MO 816-862-8203 willcross.com
Asgrow Monsanto St. Louis, MO 800-768-6387 aganytime.com/asgrow			

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

Wabash silty clay

Optimal planting conditions led to great stands and early season growth.
Timely rains led to excellent yields.

April May June July Aug. Sept. Total

Rainfall: 7.5 6.5 0.7 6.1 4.8 6.5 34.1

Planted 5/10/2016 at 155000 seeds/ac; harvested 10/27/2016; 11 ft. by 4-row plot; pesticides: Post: 12 oz Cobra, 4 oz Select, 1% COC, .7 pt AMS

Table 2. Onaga, Pottawatomie County Dryland Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	68.0	32.5	--	50.3	--	98	106	--	9/19	1.8	42
ASGROW	AG4232	66.8	29.5	--	48.2	--	96	96	--	10/1	2.0	46
CHECK	MG3.1	67.5	--	--	--	--	97	--	--	9/26	1.0	37
CHECK	MG3.5	64.0	25.9	--	45.0	--	92	84	--	9/21	1.8	41
CHECK	MG3.9	72.7	30.1	--	51.4	--	105	97	--	9/29	1.0	40
CHECK	MG4.2	65.1	--	--	--	--	94	--	--	9/29	1.0	43
CHECK	MG4.5	67.8	--	--	--	--	98	--	--	10/3	1.0	43
FRONTIER SEED	3SR92	70.8	--	--	--	--	102	--	--	9/22	1.0	36
KANSAS AES	K4313NRRT	66.1	--	--	--	--	95	--	--	9/24	2.0	41
KANSAS AES	KS3406RR	62.1	--	--	--	--	90	--	--	9/22	1.0	39
LG SEEDS	C3911RX	71.1	--	--	--	--	102	--	--	9/27	1.0	43
LG SEEDS	C3989R2	74.8	35.2	52.3	55.0	54.1	108	114	107	9/25	1.8	45
LG SEEDS	C4145R2	77.1	--	--	--	--	111	--	--	9/28	1.0	41
LG SEEDS	C4221R2	67.2	--	--	--	--	97	--	--	10/3	1.0	47
LG SEEDS	C4322R2	74.1	--	--	--	--	107	--	--	10/2	1.3	45
MIDLAND	3537NX	68.6	--	--	--	--	99	--	--	9/22	1.0	33
MIDLAND	3657NR2	70.1	--	--	--	--	101	--	--	9/21	1.0	38
MIDLAND	3887NX	68.0	--	--	--	--	98	--	--	9/26	1.0	43
MIDLAND	3926NRS2	64.7	32.9	--	48.8	--	93	106	--	9/26	1.0	40
MIDLAND	3983NR2	73.6	31.4	51.8	52.5	52.3	106	102	106	9/29	1.3	43
MORSOY	3932 RXT	70.4	--	--	--	--	102	--	--	9/27	1.3	44
MORSOY	40X46	77.9	--	--	--	--	112	--	--	9/29	1.0	42
MORSOY	41x04	65.7	29.6	--	47.7	--	95	96	--	9/29	1.5	46
PHILLIPS	375 NR2YS	69.0	31.6	45.6	50.3	48.7	100	102	94	9/27	1.0	38
PHILLIPS	387 NR2X	64.1	--	--	--	--	92	--	--	9/27	1.0	40
PHILLIPS	392 NR2YS	64.0	27.8	53.6	45.9	48.5	92	90	110	9/27	1.0	40
PHILLIPS	411 NR2Y	75.3	29.1	47.1	52.2	50.5	109	94	97	9/29	1.0	39
PHILLIPS	427 NR2XS	64.5	--	--	--	--	93	--	--	10/3	1.3	46
PHILLIPS	433 NR2YS	74.3	30.9	--	52.6	--	107	100	--	10/3	1.0	40
PHILLIPS	447 NR2XS	70.2	--	--	--	--	101	--	--	10/4	2.0	47
PHILLIPS	454 R2YSE	65.5	--	--	--	--	95	--	--	10/4	1.0	41
PHILLIPS	456 NR2XS	74.5	--	--	--	--	107	--	--	10/5	2.0	45
PHILLIPS	469 NR2YS	73.9	--	--	--	--	107	--	--	10/4	1.8	47
WILLCROSS	WXE 3386N	73.0	--	--	--	--	105	--	--	9/26	1.0	45
WILLCROSS	WXE 3396N	62.7	--	--	--	--	90	--	--	9/25	1.0	41
WILLCROSS	WXX 3376N	75.1	--	--	--	--	108	--	--	9/23	1.0	40
WILLCROSS	WXX 3426NS	67.4	--	--	--	--	97	--	--	10/3	1.0	45
	AVERAGES	69.4	30.9	48.7								
	CV (%)	7.8	6.6	7.2								
	LSD (0.10)	6.3	2.4	4.1								

Values in bold are in the upper LSD group.

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

Wabash silty clay loam

Growing season was wetter than normal with above average rainfall in all months except June.

April May June July Aug. Sept. Total

Rainfall: 7.5 4.3 2.2 3.6 4.9 8.9 32.4

Planted 6/1/2016 at 100000 seeds/ac; harvested 10/19/2016; 11 ft. by 4-row plot; pesticides: Pre-emerge+burndown: 5.0 oz Authority Maxx, 1.5 pt Dual II Mag, 32 oz Liberty, 22 oz RR Weathermax. Post emerge: 32 oz RR Weathermax, 2 oz Zidua

Table 3. Topeka, Shawnee County Dryland Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
GOLDEN HARVEST	S39-T3	80.6	--	--	--	--	107	--	--	9/9	1.8	44
KANSAS AES	K4313NRRRT	65.9	86.1	--	76.0	--	87	108	--	9/9	1.5	39
KANSAS AES	KS3406RR	71.4	--	--	--	--	94	--	--	9/5	2.3	42
MIDLAND	3633NR2	78.2	--	54.0	--	--	103	--	91	9/9	1.8	44
MIDLAND	3887NX	73.4	--	--	--	--	97	--	--	9/7	1.0	46
MIDLAND	3926NRS2	78.7	81.1	--	79.9	--	104	101	--	9/9	1.5	44
MIDLAND	3983NR2	79.6	86.7	65.1	83.1	77.1	105	108	110	9/7	2.3	49
MIDLAND	4247NXS	74.8	--	--	--	--	99	--	--	9/9	1.8	47
MIDLAND	4373NR2	78.1	76.0	56.4	77.1	70.2	103	95	95	9/9	1.8	42
MIDLAND	4677NXS	76.0	--	--	--	--	100	--	--	9/17	2.5	54
MORSOY	3932 RXT	75.6	--	--	--	--	100	--	--	9/7	1.0	42
MORSOY	40X46	79.8	--	--	--	--	105	--	--	9/7	1.8	44
MORSOY	41x04	76.3	80.3	--	78.3	--	101	100	--	9/7	1.5	54
MORSOY	4206 RXT	63.8	--	--	--	--	84	--	--	9/7	1.3	45
MORSOY	4272 RXT	76.8	--	--	--	--	101	--	--	9/9	2.0	46
MORSOY	4426 RXT	77.2	--	--	--	--	102	--	--	9/16	2.5	49
MORSOY	4486 RXT	78.3	--	--	--	--	103	--	--	9/14	2.0	49
MORSOY	4535 RXT	80.4	--	--	--	--	106	--	--	9/15	3.0	52
PHILLIPS	375 NR2YS	66.7	76.4	54.8	71.5	66.0	88	95	93	9/9	1.3	44
PHILLIPS	387 NR2X	73.7	--	--	--	--	97	--	--	9/7	1.8	48
PHILLIPS	392 NR2YS	72.7	74.7	--	73.7	--	96	93	--	9/9	1.3	49
PHILLIPS	411 NR2Y	75.2	86.3	58.7	80.7	73.4	99	108	99	9/13	1.5	38
PHILLIPS	427 NR2XS	67.3	--	--	--	--	89	--	--	9/5	1.0	51
PHILLIPS	433 NR2YS	71.6	83.5	--	77.5	--	95	104	--	9/11	2.0	44
PHILLIPS	447 NR2XS	77.6	--	--	--	--	102	--	--	9/14	2.0	47
PHILLIPS	454 R2YSE	77.0	--	--	--	--	102	--	--	9/10	1.8	44
PHILLIPS	456 NR2XS	83.8	--	--	--	--	111	--	--	9/15	2.8	50
PHILLIPS	469 NR2YS	75.1	--	--	--	--	99	--	--	9/15	2.0	56
WILLCROSS	WXE 3386N	70.3	--	--	--	--	93	--	--	9/7	1.0	42
WILLCROSS	WXE 3396N	81.7	--	--	--	--	108	--	--	9/7	2.0	47
WILLCROSS	WXE 3456NS	76.5	--	--	--	--	101	--	--	9/16	3.5	50
WILLCROSS	WXE 3466NS	75.9	--	--	--	--	100	--	--	9/17	2.3	52
WILLCROSS	WXX 3426NS	71.2	--	--	--	--	94	--	--	9/11	1.0	46
WILLCROSS	WXX 3446NS	77.9	--	--	--	--	103	--	--	9/16	2.0	49
	AVERAGES	75.7	80.0	59.1								
	CV (%)	6.9	8.4	9.3								
	LSD (0.10)	6.1	7.9	6.5								

Values in bold are in the upper LSD group.

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

Eudora Silt loam

Above average rainfall in all months of growing season except June led to minimal irrigation requirements and average yield. Wide range of severity of SDS.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	7.5	4.3	2.2	3.6	4.9	8.9	32.4
Irrigation:				0.8			0.8

Planted 5/12/2016 at 140000 seeds/ac; harvested 10/3/2016; 11 ft. by 4-row plot; pesticides: Pre-emerge+burndown: 5.0 oz Authority Maxx, 1.5 pt Dual II Mag, 32 oz Liberty, 22 oz RR Weathermax. Post emerge: 32 oz RR Weathermax, 12 oz Outlook.

Table 4. Topeka, Shawnee County Irrigated Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	62.9	65.8	--	64.4	--	111	98	--	9/20	2.5	44
ASGROW	AG4232	59.2	68.4	--	63.8	--	104	102	--	9/24	2.0	44
CHECK	MG3.5	60.4	75.4	--	67.9	--	106	112	--	9/19	2.8	46
CHECK	MG3.9	59.0	74.8	--	66.9	--	104	111	--	9/23	1.5	37
CHECK	MG4.2	56.8	--	--	--	--	100	--	--	9/24	1.8	47
CHECK	MG4.5	62.7	--	--	--	--	110	--	--	9/30	1.0	35
GOLDEN HARVEST	S39-T3	59.9	--	--	--	--	105	--	--	9/24	1.3	40
KANSAS AES	KS3406RR	56.0	--	--	--	--	99	--	--	9/21	2.0	40
MIDLAND	3537NX	54.8	--	--	--	--	97	--	--	9/23	1.0	38
MIDLAND	3657NR2	61.1	--	--	--	--	108	--	--	9/19	3.0	41
MIDLAND	3887NX	62.2	--	--	--	--	109	--	--	9/30	2.3	43
MIDLAND	3926NRS2	67.3	77.1	--	72.2	--	119	114	--	9/21	1.0	41
MIDLAND	3983NR2	61.4	--	36.9	--	--	108	--	91	9/28	2.3	48
MIDLAND	4247NXS	51.1	--	--	--	--	90	--	--	9/23	1.8	44
MIDLAND	4677NXS	57.5	--	--	--	--	101	--	--	9/25	2.5	45
MORSOY	3932 RXT	51.7	--	--	--	--	91	--	--	9/22	2.0	42
MORSOY	40X46	56.9	--	--	--	--	100	--	--	9/24	2.3	44
MORSOY	41x04	51.6	60.1	--	55.9	--	91	89	--	9/23	2.0	44
MORSOY	4206 RXT	55.5	--	--	--	--	98	--	--	9/25	2.0	49
MORSOY	4272 RXT	58.8	--	--	--	--	103	--	--	9/28	2.8	49
MORSOY	4426 RXT	60.9	--	--	--	--	107	--	--	9/29	2.5	48
MORSOY	4486 RXT	61.1	--	--	--	--	108	--	--	9/30	2.5	47
MORSOY	4535 RXT	52.7	--	--	--	--	93	--	--	9/27	2.5	44
PHILLIPS	375 NR2YS	53.6	63.4	39.0	58.5	52.0	94	94	96	9/24	1.8	39
PHILLIPS	387 NR2X	57.2	--	--	--	--	101	--	--	9/20	2.0	45
PHILLIPS	392 NR2YS	50.7	47.9	--	49.3	--	89	71	--	9/24	1.8	42
PHILLIPS	411 NR2Y	64.7	77.5	44.5	71.1	62.3	114	115	109	9/25	2.3	48
PHILLIPS	427 NR2XS	45.8	--	--	--	--	81	--	--	9/26	1.5	44
PHILLIPS	433 NR2YS	48.4	56.9	--	52.6	--	85	84	--	9/24	1.0	37
PHILLIPS	447 NR2XS	62.3	--	--	--	--	110	--	--	10/1	2.5	46
PHILLIPS	454 R2YSE	50.4	--	--	--	--	89	--	--	9/25	1.5	41
PHILLIPS	456 NR2XS	46.0	--	--	--	--	81	--	--	9/25	3.3	48
PHILLIPS	469 NR2YS	57.9	--	--	--	--	102	--	--	9/29	2.5	50
WILLCROSS	WXE 3386N	63.2	--	--	--	--	111	--	--	9/24	1.5	43
WILLCROSS	WXE 3396N	61.1	--	--	--	--	108	--	--	10/4	1.8	46
WILLCROSS	WXE 3456NS	59.7	--	--	--	--	105	--	--	10/1	2.8	45
WILLCROSS	WXE 3466NS	56.4	--	--	--	--	99	--	--	10/2	2.3	54
WILLCROSS	WXX 3426NS	50.6	--	--	--	--	89	--	--	9/30	2.0	49
WILLCROSS	WXX 3446NS	57.2	--	--	--	--	101	--	--	10/2	2.5	46
	AVERAGES	56.8	67.4	40.7								
	CV (%)	13.5	9.4	19.9								
	LSD (0.10)	9.0	7.4	9.5								

Values in bold are in the upper LSD group.

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

Adequate soil moisture at beginning of season with timely planting. Very good, almost irrigated conditions throughout growing season with great yields. Excellent weed control and harvest conditions near perfect.

April May June July Aug. Sept. Total

Rainfall: 3.9 7.7 1.9 2.2 8.7 0.8 25.1

Planted 6/3/2016 at 140000 seeds/ac; harvested 10/17/2016; 26 ft. by 4-row plot; pesticides: Pre-emerge: 7 oz Authority XL, 1.5 pt Cinch. Post: 1.5 pt Storm, 12 oz Assure, 1 lb AMS, 1 pt/100 gal NIS

Table 5. Ottawa, Franklin County Dryland Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	83.5	61.1	--	72.3	--	105	103	--	9/26	2.0	45
ASGROW	AG4232	84.4	60.1	--	72.3	--	107	102	--	10/6	2.0	48
CHECK	MG3.5	84.7	55.6	--	70.1	--	107	94	--	9/26	1.0	43
CHECK	MG3.9	85.1	57.8	--	71.5	--	107	98	--	10/1	1.0	42
CHECK	MG4.2	89.5	--	--	--	--	113	--	--	10/4	1.0	42
CHECK	MG4.5	75.9	--	--	--	--	96	--	--	10/6	1.0	43
KANSAS AES	K4313NRRT	77.5	--	--	--	--	98	--	--	10/5	1.5	41
KANSAS AES	KS3406RR	75.4	--	--	--	--	95	--	--	9/29	2.0	41
MIDLAND	3633NR2	82.8	60.8	46.3	71.8	63.3	105	103	114	9/28	2.0	47
MIDLAND	3926NRS2	83.1	58.5	--	70.8	--	105	99	--	10/2	1.0	40
MIDLAND	3983NR2	82.1	58.8	44.4	70.4	61.8	104	100	110	10/2	3.0	46
MIDLAND	4247NXS	77.3	--	--	--	--	98	--	--	10/3	2.0	47
MIDLAND	4373NR2	85.6	57.5	40.7	71.6	61.3	108	97	100	10/4	1.0	42
MIDLAND	4677NXS	73.4	--	--	--	--	93	--	--	10/12	2.0	52
MIDLAND	4797NRS2	78.5	--	--	--	--	99	--	--	10/12	2.0	48
MIDLAND	4956NXS	79.6	--	--	--	--	101	--	--	10/13	1.5	50
MIDLAND	4963NRS2	71.7	58.3	32.3	65.0	54.1	91	99	80	10/13	3.0	47
MORSOY	3932 RXT	83.7	--	--	--	--	106	--	--	9/30	2.0	45
MORSOY	40X46	89.0	--	--	--	--	112	--	--	10/3	2.0	42
MORSOY	41x04	73.2	60.0	--	66.6	--	92	102	--	10/3	2.0	46
MORSOY	4206 RXT	80.8	--	--	--	--	102	--	--	10/3	2.0	48
MORSOY	4272 RXT	74.9	--	--	--	--	95	--	--	10/4	3.0	46
MORSOY	4426 RXT	90.0	--	--	--	--	114	--	--	10/9	2.0	47
MORSOY	4486 RXT	75.6	--	--	--	--	96	--	--	10/9	2.0	49
MORSOY	4535 RXT	81.3	--	--	--	--	103	--	--	10/10	3.0	49
MORSOY	4616 RXT	79.2	--	--	--	--	100	--	--	10/10	3.0	49
MORSOY	4656 RXT	69.1	--	--	--	--	87	--	--	10/12	2.0	52
MORSOY	4706 RXT	64.8	--	--	--	--	82	--	--	10/13	2.0	53
PHILLIPS	387 NR2X	81.9	--	--	--	--	103	--	--	10/2	1.0	45
PHILLIPS	392 NR2YS	75.0	57.1	38.3	66.0	56.8	95	97	94	10/4	2.0	45
PHILLIPS	411 NR2Y	84.4	60.4	44.0	72.4	62.9	107	102	108	10/5	2.0	43
PHILLIPS	427 NR2XS	70.4	--	--	--	--	89	--	--	10/4	3.0	48
PHILLIPS	433 NR2YS	77.4	62.2	39.2	69.8	59.6	98	105	97	10/4	1.0	40
PHILLIPS	447 NR2XS	72.6	--	--	--	--	92	--	--	10/8	2.0	49
PHILLIPS	454 R2YSE	82.0	64.6	42.6	73.3	63.0	104	109	105	10/6	2.0	42
PHILLIPS	456 NR2XS	82.6	--	--	--	--	104	--	--	10/11	3.0	49
PHILLIPS	469 NR2YS	77.9	62.2	--	70.1	--	98	105	--	10/8	2.0	48
WILLCROSS	WXE 3386N	71.1	--	--	--	--	90	--	--	10/3	2.0	46
WILLCROSS	WXE 3396N	89.0	--	--	--	--	112	--	--	10/1	2.0	43
WILLCROSS	WXE 3456NS	80.2	--	--	--	--	101	--	--	10/8	3.0	50
WILLCROSS	WXE 3466NS	70.9	--	--	--	--	90	--	--	10/12	2.0	52
WILLCROSS	WXX 3426NS	69.9	--	--	--	--	88	--	--	10/2	2.0	47
WILLCROSS	WXX 3446NS	89.4	--	--	--	--	113	--	--	10/11	2.0	46
	AVERAGES	79.2	59.1	40.5								
	CV (%)	7.1	7.5	13.7								
	LSD (0.10)	6.6	5.2	6.5								

Values in bold are in the upper LSD group.

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

Parsons Silt Loam

Adequate moisture at planting with sufficient rainfall throughout the growing season led to good yields.

April May June July Aug. Sept. Total

Rainfall: 5.0 5.5 7.0 6.2 4.3 4.5 39.5

Planted 6/29/2016 at 122,000 seeds/ac; harvested 11/16/2016; 14 ft. by 4-row plot; pesticides: Pre-emerge: 2 pt/ac gramoxone, 2 pt/ac Dual II Magnum, 1.5 lb/ac metolobuzin, 6 oz Authority XL

Table 6. Columbus, Cherokee County Dryland Soybean Performance Test, Maturity Groups III-IV, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	55.2	53.8	--	54.5	--	103	94	--	10/7	1.0	--
ASGROW	AG4232	58.1	60.7	--	59.4	--	109	106	--	10/14	1.0	--
CHECK	MG3.5	52.2	54.3	--	53.3	--	98	95	--	10/5	1.0	--
CHECK	MG3.9	52.6	57.3	--	54.9	--	99	100	--	10/10	1.0	--
CHECK	MG4.2	53.1	--	--	--	--	100	--	--	10/14	1.0	--
CHECK	MG4.5	53.6	--	--	--	--	101	--	--	10/15	1.0	--
MIDLAND	4677NXS	58.1	--	--	--	--	109	--	--	10/17	1.0	--
MORSOY	4426 RXT	55.9	--	--	--	--	105	--	--	10/17	1.0	--
MORSOY	4486 RXT	53.2	--	--	--	--	100	--	--	10/15	1.0	--
MORSOY	4535 RXT	60.4	--	--	--	--	113	--	--	10/14	1.0	--
MORSOY	4616 RXT	52.6	--	--	--	--	99	--	--	10/13	1.0	--
MORSOY	4656 RXT	57.2	--	--	--	--	107	--	--	10/17	1.0	--
WILLCROSS	WXE 3456NS	51.1	--	--	--	--	96	--	--	10/15	1.0	--
WILLCROSS	WXE 3466NS	54.6	--	--	--	--	102	--	--	10/18	1.0	--
	AVERAGES	53.4	57.0	45.1								
	CV (%)	9.5	3.9	5.4								
	LSD (0.10)	6.0	3.2	2.9								

Values in bold are in the upper LSD group.

Table 7. Columbus, Cherokee County Dryland Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ARKANSAS	R07-6614RR	50.4	--	--	--	--	92	--	--	10/20	1.0	--
ARKANSAS	R10-197RY	54.9	--	--	--	--	100	--	--	10/17	1.0	--
ARKANSAS	R11-89RY	57.2	--	--	--	--	104	--	--	10/17	1.0	--
ARKANSAS	UA 5414RR	53.0	--	41.5	--	--	97	--	92	10/18	1.0	--
ASGROW	AG5335	56.9	65.1	--	61.0	--	104	110	--	10/17	1.0	--
CHECK	MG4.9	57.0	62.0	--	59.5	--	104	104	--	10/17	1.0	--
CHECK	MG5.0	55.0	64.4	--	59.7	--	100	108	--	10/17	1.0	--
FRONTIER SEED	4SR82	49.4	--	--	--	--	90	--	--	10/17	1.0	--
FRONTIER SEED	51GT02	45.0	--	--	--	--	82	--	--	10/17	1.0	--
MIDLAND	4797NRS2	53.4	--	--	--	--	97	--	--	10/17	1.0	--
MIDLAND	4956NXS	57.6	--	--	--	--	105	--	--	10/17	1.0	--
MIDLAND	4963NRS2	59.3	61.8	41.8	60.5	54.3	108	104	93	10/17	1.0	--
MIDLAND	5286NRS2	54.9	62.8	--	58.9	--	100	106	--	10/18	1.0	--
MORSOY	4706 RXT	57.8	--	--	--	--	105	--	--	10/18	1.0	--
MORSOY	48x22	58.9	59.3	44.4	59.1	54.2	107	100	98	10/17	1.0	--
MORSOY	5050 RXT	57.2	--	--	--	--	104	--	--	10/17	1.0	--
MORSOY	52x25	56.6	62.5	--	59.5	--	103	105	--	10/19	1.0	--
WILLCROSS	WXE 3486NS	55.8	--	--	--	--	102	--	--	10/17	1.0	--
WILLCROSS	WXE 3496N	50.9	--	--	--	--	93	--	--	10/17	1.0	--
WILLCROSS	WXE 3546N	57.6	--	--	--	--	105	--	--	10/17	1.0	--
	AVERAGES	54.9	59.4	45.1								
	CV (%)	5.8	6.4	6.0								
	LSD (0.10)	3.8	4.5	3.2								

Values in bold are in the upper LSD group.

Vernon Egbert Farm, McCune, Crawford County; Bill Schapaugh, agronomist

Adequate moisture at planting with sufficient rainfall throughout the growing season led to good to average yields. Moderate weed pressure.

April May June July Aug. Sept. Total

Rainfall: 5.4 5.8 3.6 6.9 5.0 4.9 37.5

Planted 6/15/2016 at 155000 seeds/ac; harvested 11/10/2016; 12 ft. by 4-row plot; pesticides: Pre-emerge: 6 oz Authority XL

Table 8. McCune, Crawford County Dryland Soybean Performance Test, Maturity Groups III-IV, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	51.3	42.6	--	47.0	--	90	86	--	10/3	1.0	38
ASGROW	AG4232	62.0	56.9	--	59.5	--	109	115	--	10/10	1.0	39
CHECK	MG3.5	51.8	39.7	--	45.8	--	91	81	--	10/3	1.0	39
CHECK	MG3.9	50.8	41.3	--	46.0	--	89	84	--	10/7	1.0	33
CHECK	MG4.2	56.0	--	--	--	--	98	--	--	10/9	1.0	36
CHECK	MG4.5	55.9	--	--	--	--	98	--	--	10/12	1.0	35
MIDLAND	4677NXS	61.3	--	--	--	--	108	--	--	10/15	1.3	40
MORSOY	4426 RXT	64.1	--	--	--	--	113	--	--	10/16	1.0	39
MORSOY	4486 RXT	60.6	--	--	--	--	106	--	--	10/15	1.0	39
MORSOY	4535 RXT	63.2	--	--	--	--	111	--	--	10/16	1.0	36
MORSOY	4616 RXT	59.6	--	--	--	--	105	--	--	10/15	1.0	38
MORSOY	4656 RXT	61.8	--	--	--	--	109	--	--	10/16	1.0	41
WILLCROSS	WXE 3456NS	60.5	--	--	--	--	106	--	--	10/17	1.0	37
WILLCROSS	WXE 3466NS	61.9	--	--	--	--	109	--	--	10/17	1.0	41
	AVERAGES	56.9	49.3	50.8								
	CV (%)	4.5	6.0	4.6								
	LSD (0.10)	3.0	3.5	2.8								

Values in bold are in the upper LSD group.

Table 9. McCune, Crawford County Dryland Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ARKANSAS	R07-6614RR	51.2	--	--	--	--	93	--	--	10/21	1.0	34
ARKANSAS	R10-197RY	52.8	--	--	--	--	96	--	--	10/17	1.0	37
ARKANSAS	R11-89RY	58.8	--	--	--	--	107	--	--	10/18	1.0	33
ARKANSAS	UA 5414RR	52.0	--	48.5	--	--	95	--	97	10/19	1.0	37
ASGROW	AG5335	54.1	49.5	--	51.8	--	98	97	--	10/17	1.0	32
CHECK	MG4.9	55.2	53.6	--	54.4	--	101	105	--	10/14	1.0	33
CHECK	MG5.0	52.1	50.6	--	51.3	--	95	99	--	10/17	1.0	30
MIDLAND	4797NRS2	54.4	--	--	--	--	99	--	--	10/17	1.0	33
MIDLAND	4956NXS	54.1	--	--	--	--	98	--	--	10/17	1.0	36
MIDLAND	4963NRS2	58.8	53.0	54.4	55.9	55.4	107	104	108	10/17	1.0	31
MIDLAND	5286NRS2	55.8	50.5	--	53.2	--	102	99	--	10/21	1.0	33
MORSOY	4706 RXT	55.4	--	--	--	--	101	--	--	10/16	1.3	36
MORSOY	48x22	55.0	53.3	51.1	54.1	53.1	100	104	102	10/18	1.0	29
MORSOY	5050 RXT	55.3	--	--	--	--	101	--	--	10/18	1.0	33
MORSOY	52x25	56.6	51.8	--	54.2	--	103	101	--	10/21	1.0	32
WILLCROSS	WXE 3486NS	57.2	--	--	--	--	104	--	--	10/17	1.0	33
WILLCROSS	WXE 3496N	55.0	--	--	--	--	100	--	--	10/18	1.0	27
WILLCROSS	WXE 3546N	55.0	--	--	--	--	100	--	--	10/19	1.0	33
	AVERAGES	54.9	51.1	50.2								
	CV (%)	4.7	5.3	5.1								
	LSD (0.10)	3.0	3.2	3.0								

Values in bold are in the upper LSD group.

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

Lanton Silt Loam

Adequate moisture at planting with sufficient rainfall throughout the growing season led to good yields.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	5.0	3.8	7.0	6.2	4.3	4.5	37.7

Planted 6/7/2016 at 122,000 seeds/ac; harvested 11/17/2016; ft. by 4-row plot; pesticides: Pre-emerge: 2 pt/ac gramoxone, 2 pt/ac Dual II Magnum, 1.5 lb/ac metribuzin, 6 oz/ac Authority XL

Table 10. Erie, Neosho County Dryland Soybean Performance Test, Maturity Groups III-IV, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	47.6	--	--	--	--	106	--	--	10/6	1.0	--
ASGROW	AG4232	41.6	--	--	--	--	93	--	--	10/12	1.0	--
CHECK	MG3.5	43.6	--	--	--	--	98	--	--	10/3	1.0	--
CHECK	MG3.9	48.6	--	--	--	--	109	--	--	10/8	1.0	--
CHECK	MG4.2	42.9	--	--	--	--	96	--	--	10/14	1.0	--
CHECK	MG4.5	44.7	--	--	--	--	100	--	--	10/9	1.0	--
KANSAS AES	K4313NRRT	42.6	--	--	--	--	95	--	--	10/4	1.0	--
KANSAS AES	KS3406RR	39.4	--	--	--	--	88	--	--	10/4	1.0	--
MIDLAND	4677NXS	45.3	--	--	--	--	101	--	--	10/18	1.0	--
MORSOY	4426 RXT	45.4	--	--	--	--	102	--	--	10/15	1.0	--
MORSOY	4486 RXT	36.0	--	--	--	--	81	--	--	10/14	1.0	--
MORSOY	4535 RXT	50.4	--	--	--	--	113	--	--	10/14	1.0	--
MORSOY	4616 RXT	47.7	--	--	--	--	107	--	--	10/15	1.0	--
MORSOY	4656 RXT	50.3	--	--	--	--	112	--	--	10/14	1.0	--
	AVERAGES	44.7	--	43.2								
	CV (%)	10.4	--	9.7								
	LSD (0.10)	5.6	--	5.0								

Values in bold are in the upper LSD group.

Table 11. Erie, Neosho County Dryland Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ARKANSAS	R07-6614RR	42.8	--	--	--	-	98	-	--	10/19	1.0	--
ARKANSAS	R10-197RY	40.3	--	--	--	-	93	-	--	10/14	1.0	--
ARKANSAS	R11-89RY	43.5	--	--	--	-	100	-	--	10/13	1.0	--
ARKANSAS	UA 5414RR	42.7	--	41.4	--	-	98	--	110	10/14	1.0	--
ASGROW	AG5335	41.9	--	--	--	-	96	-	--	10/18	1.0	--
CHECK	MG4.9	42.3	--	--	--	-	97	-	--	10/16	1.0	--
CHECK	MG5.0	42.5	--	--	--	-	98	-	--	10/14	1.0	--
MIDLAND	4797NRS2	45.3	--	--	--	-	104	-	--	10/16	1.0	--
MIDLAND	4956NXS	48.0	--	--	--	-	110	-	--	10/14	1.0	--
MORSOY	4706 RXT	44.4	--	--	--	-	102	-	--	10/16	1.0	--
MORSOY	48x22	41.8	--	32.7	--	-	96	--	87	10/14	1.0	--
MORSOY	5050 RXT	44.7	--	--	--	-	103	-	--	10/13	1.0	--
MORSOY	52x25	45.3	--	--	--	-	104	-	--	10/15	1.0	--
	AVERAGES	43.5	--	37.6								
	CV (%)	9.9	--	12.9								
	LSD (0.10)	NS	--	5.8								

Values in bold are in the upper LSD group.

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

Optimal planting conditions allowed for excellent emergence with some areas of compaction leading to uneven growth in plots. A dry spell in mid summer led to very dry hard soils. Late summer early fall rains resulted in high yields.

April May June July Aug. Sept. Total
 Rainfall: 5.4 5.8 3.6 6.9 5.0 4.9 37.5

Planted 6/10/2016 at 155000 seeds/ac; harvested 11/9/2016; 50 ft. by 4-row plot; pesticides: Pre-emerge: Prefix +Authority First

Table 12. Pittsburg, Crawford County Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG4232	57.2	47.8	--	52.5	--	97	97	--	--	3.3	45
ASGROW	AG5335	63.5	52.5	--	58.0	--	107	107	--	--	1.5	44
CHECK	MG4.2	47.5	--	--	--	--	80	--	--	--	1.0	38
CHECK	MG4.5	49.5	--	--	--	--	84	--	--	--	1.3	40
CHECK	MG4.9	65.6	46.4	--	56.0	--	111	95	--	--	2.3	48
CHECK	MG5.0	56.4	50.1	--	53.3	--	95	102	--	--	1.8	44
MIDLAND	4677NXS	62.8	--	--	--	--	106	--	--	--	2.0	50
MIDLAND	4797NRS2	57.8	--	--	--	--	98	--	--	--	1.8	42
MIDLAND	4956NXS	61.8	--	--	--	--	104	--	--	--	2.0	46
MIDLAND	4963NRS2	60.1	53.0	38.2	56.6	50.4	101	108	113	--	2.8	43
MIDLAND	5286NRS2	67.0	53.3	--	60.1	--	113	109	--	--	2.8	47
MORSOY	4426 RXT	65.0	--	--	--	--	110	--	--	--	2.3	44
MORSOY	4486 RXT	59.9	--	--	--	--	101	--	--	--	2.5	46
MORSOY	4535 RXT	58.0	--	--	--	--	98	--	--	--	2.5	46
MORSOY	4616 RXT	52.8	--	--	--	--	89	--	--	--	2.8	44
MORSOY	4656 RXT	64.3	--	--	--	--	109	--	--	--	2.0	48
MORSOY	4706 RXT	64.4	--	--	--	--	109	--	--	--	2.5	51
MORSOY	48x22	57.5	50.5	--	54.0	--	97	103	--	--	3.5	43
MORSOY	5050 RXT	60.0	--	--	--	--	101	--	--	--	1.8	44
MORSOY	52x25	58.3	50.8	--	54.6	--	98	103	--	--	2.3	46
WILLCROSS	WXE 3486NS	58.2	--	--	--	--	98	--	--	--	1.8	47
WILLCROSS	WXE 3496N	62.5	--	--	--	--	106	--	--	--	1.5	44
WILLCROSS	WXE 3546N	60.0	--	--	--	--	101	--	--	--	1.3	39
	AVERAGES	59.3	49.1	33.7								
	CV (%)	7.2	7.6	4.1								
	LSD (0.10)	5.1	4.4	1.6								

Values in bold are in the upper LSD group.

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

Good growing conditions and excellent weed control.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	4.0	8.2	1.0	6.2	6.7	2.2	30.2
Irrigation:			1.3	3.8	1.3		6.25

Planted 6/2/2016 at 167000 seeds/ac; harvested 10/21/2016; 26 ft. by 2-row plot; pesticides: Pre-emerge: Makaze (Glyphosate) 1 qt + Salvo (2,4-D) 1 pt. Post: Cobra 12.5 oz + 10oz Intensity One + 1 qt Makaze

Table 13. Scandia, Republic County Irrigated Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	62.7	64.0	--	63.4	--	105	108	--	--	1.0	45
ASGROW	AG4232	57.3	54.6	--	56.0	--	97	92	--	--	1.0	49
CHECK	MG3.1	55.0	--	--	--	--	93	--	--	--	1.0	41
CHECK	MG3.5	59.7	60.8	--	60.3	--	100	103	--	--	1.0	44
CHECK	MG3.9	60.3	59.2	--	59.8	--	102	100	--	--	1.0	41
CHECK	MG4.2	65.7	--	--	--	--	111	--	--	--	1.0	45
CHECK	MG4.5	62.7	--	--	--	--	105	--	--	--	1.0	44
KANSAS AES	K4313NRRT	57.3	61.9	--	59.6	--	97	105	--	--	1.0	43
KANSAS AES	KS3406RR	58.0	--	--	--	--	98	--	--	--	1.0	41
MIDLAND	3537NX	63.7	--	--	--	--	107	--	--	--	1.0	42
MIDLAND	3657NR2	57.0	--	--	--	--	96	--	--	--	1.0	42
MIDLAND	3887NX	59.0	--	--	--	--	99	--	--	--	1.0	47
MIDLAND	3926NRS2	63.7	61.8	--	62.7	--	107	104	--	--	1.0	44
MIDLAND	3983NR2	62.3	61.3	57.9	61.8	60.5	105	103	94	--	1.0	47
MIDLAND	4247NXS	59.7	--	--	--	--	100	--	--	--	1.0	48
PHILLIPS	375 NR2YS	57.0	61.2	62.9	59.1	60.4	96	103	102	--	1.0	47
PHILLIPS	387 NR2X	62.3	--	--	--	--	105	--	--	--	1.0	46
PHILLIPS	392 NR2YS	55.3	51.4	--	53.3	--	93	87	--	--	1.0	47
PHILLIPS	411 NR2Y	59.7	62.0	64.6	60.8	62.1	100	105	105	--	1.0	42
PHILLIPS	427 NR2XS	51.3	--	--	--	--	86	--	--	--	1.0	47
PHILLIPS	433 NR2YS	58.7	56.7	--	57.7	--	99	96	--	--	1.0	43
PHILLIPS	447 NR2XS	59.3	--	--	--	--	100	--	--	--	1.0	50
	AVERAGES	59.4	59.2	61.4								
	CV (%)	7.8	7.4	8.6								
	LSD (0.10)	6.3	6.0	7.4								

Values in bold are in the upper LSD group.

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

Good growing conditions and excellent weed control.

April May June July Aug. Sept. Total

Rainfall: 4.4 9.6 1.3 5.7 7.0 2.3 32.2

Planted 6/7/2016 at 142000 seeds/ac; harvested 10/25/2016; 23 ft. by 4-row plot; pesticides: Pre-emerge: Makaze (Glyphosate) 1 qt + Salvo (2,4-D) 1 pt. Post: Cobra 12.5 oz + 10 oz Intensity One + 1 qt Makaze

Table 14. Belleville, Republic County Dryland Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	67.6	42.9	--	55.3	--	105	106	--	--	1.0	34
ASGROW	AG4232	60.5	39.9	--	50.2	--	94	98	--	--	1.0	38
CHECK	MG3.1	55.1	--	--	--	--	85	--	--	--	1.0	31
CHECK	MG3.5	65.5	33.3	--	49.4	--	102	82	--	--	1.0	30
CHECK	MG3.9	62.9	37.1	--	50.0	--	98	91	--	--	1.0	31
CHECK	MG4.2	64.9	--	--	--	--	101	--	--	--	1.0	34
CHECK	MG4.5	66.4	--	--	--	--	103	--	--	--	1.0	32
GOLDEN HARVEST	S28-N6	55.1	--	--	--	--	85	--	--	--	1.0	29
GOLDEN HARVEST	S30-C1	62.6	39.9	65.9	51.3	56.1	97	98	110	--	1.0	25
GOLDEN HARVEST	S35-A5	67.7	39.2	57.9	53.5	54.9	105	96	96	--	1.0	36
GOLDEN HARVEST	S36-Y6	64.6	--	--	--	--	100	--	--	--	1.0	31
GOLDEN HARVEST	S38-W4	64.2	44.4	63.1	54.3	57.2	100	109	105	--	1.0	37
GOLDEN HARVEST	S39-T3	70.2	39.7	70.7	55.0	60.2	109	98	118	--	1.0	32
KANSAS AES	K4313NRRT	56.5	--	--	--	--	88	--	--	--	1.0	30
KANSAS AES	KS3406RR	65.4	--	--	--	--	101	--	--	--	1.0	33
MIDLAND	3465NR2	70.1	40.1	61.6	55.1	57.3	109	99	103	--	1.0	34
MIDLAND	3537NX	67.1	--	--	--	--	104	--	--	--	1.0	29
MIDLAND	3633NR2	64.0	38.5	64.1	51.3	55.5	99	95	107	--	1.0	32
MIDLAND	3657NR2	67.3	--	--	--	--	104	--	--	--	1.0	32
MIDLAND	3887NX	65.5	--	--	--	--	102	--	--	--	1.0	34
MIDLAND	3926NRS2	69.8	39.8	--	54.8	--	108	98	--	--	1.0	32
MIDLAND	3983NR2	72.4	42.3	55.1	57.4	56.6	112	104	92	--	1.0	35
MIDLAND	4247NXS	63.2	--	--	--	--	98	--	--	--	1.0	37
PHILLIPS	375 NR2YS	59.2	42.8	56.1	51.0	52.7	92	105	93	--	1.0	34
PHILLIPS	387 NR2X	69.7	--	--	--	--	108	--	--	--	1.0	32
PHILLIPS	392 NR2YS	59.5	44.1	--	51.8	--	92	108	--	--	1.0	34
PHILLIPS	411 NR2Y	65.5	40.1	62.7	52.8	56.1	102	99	104	--	1.0	32
PHILLIPS	427 NR2XS	67.0	--	--	--	--	104	--	--	--	1.0	37
PHILLIPS	433 NR2YS	62.2	41.3	--	51.8	--	97	102	--	--	1.0	31
PHILLIPS	447 NR2XS	62.7	--	--	--	--	97	--	--	--	1.0	39
	AVERAGES	64.5	40.7	60.1								
	CV (%)	5.0	9.8	12.8								
	LSD (0.10)	4.4	5.4	10.5								

Values in bold are in the upper LSD group.

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

Ladysmith silty clay loam

Optimal planting conditions and timely rains throughout the growing season provided adequate growing conditions. Slight weed pressure but yields were average to above average levels.

April May June July Aug. Sept. Total

Rainfall: 3.1 4.1 0.5 1.8 5.3 0.7 16.6

Planted 6/7/2016 at 155000 seeds/ac; harvested 10/21/2016; 12 ft. by 2-row plot; pesticides: Pre-emerge: Treflan

Table 15. Assaria, Saline County Dryland Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	52.0	52.8	--	52.4	--	89	114	--	9/29	1.0	35
ASGROW	AG4232	63.2	44.8	--	54.0	--	108	97	--	10/8	1.0	39
CHECK	MG3.5	55.0	50.1	--	52.6	--	94	108	--	9/30	1.0	36
CHECK	MG3.9	62.4	51.0	--	56.7	--	107	110	--	10/5	1.5	34
CHECK	MG4.2	60.5	--	--	--	--	103	--	--	10/6	1.0	35
CHECK	MG4.5	59.4	--	--	--	--	101	--	--	10/6	1.0	34
MIDLAND	3746NR2	51.9	50.1	--	51.0	--	89	108	--	10/2	1.0	37
MIDLAND	3877NXS	60.4	--	--	--	--	103	--	--	10/8	1.0	36
MIDLAND	3884NR2	56.4	47.2	--	51.8	--	96	102	--	10/2	1.0	33
MIDLAND	3926NRS2	57.7	55.3	--	56.5	--	98	119	--	10/4	1.0	34
MIDLAND	3976NR2	57.9	50.3	--	54.1	--	99	108	--	10/2	1.0	34
MIDLAND	4247NXS	62.1	--	--	--	--	106	--	--	10/8	1.0	37
MIDLAND	4263NRS2	61.3	44.3	26.0	52.8	43.9	105	95	101	10/8	1.0	35
MIDLAND	4636NXS	59.9	--	--	--	--	102	--	--	10/16	1.0	38
MIDLAND	4677NXS	66.1	--	--	--	--	113	--	--	10/16	2.0	45
MIDLAND	4806NRS	58.6	--	--	--	--	100	--	--	10/15	1.0	36
MIDLAND	4956NXS	57.6	--	--	--	--	98	--	--	10/16	1.0	38
MIDLAND	4963NRS2	63.0	--	22.8	--	--	108	--	89	10/17	1.0	36
MIDLAND	5286NRS2	65.6	--	--	--	--	112	--	--	10/17	2.0	42
PHILLIPS	375 NR2YS	52.8	41.9	27.8	47.3	40.8	90	90	108	10/5	1.0	36
PHILLIPS	387 NR2X	57.3	--	--	--	--	98	--	--	10/5	1.0	33
PHILLIPS	392 NR2YS	58.5	36.1	26.5	47.3	40.4	100	78	103	10/5	1.0	36
PHILLIPS	411 NR2Y	55.4	51.4	23.0	53.4	43.3	95	111	90	10/6	1.0	31
PHILLIPS	427 NR2XS	60.1	--	--	--	--	103	--	--	10/7	1.0	37
PHILLIPS	433 NR2YS	57.8	43.6	27.4	50.7	42.9	99	94	107	10/9	1.5	35
PHILLIPS	447 NR2XS	59.8	--	--	--	--	102	--	--	10/13	1.5	39
PHILLIPS	454 R2YSE	56.5	44.8	26.3	50.6	42.5	96	96	103	10/10	1.0	33
PHILLIPS	456 NR2XS	66.4	--	--	--	--	113	--	--	10/13	1.0	40
PHILLIPS	469 NR2YS	63.2	48.1	23.2	55.7	44.8	108	104	90	10/13	1.0	38
PHILLIPS	499 NR2YS	63.9	37.4	24.5	50.7	42.0	109	81	96	10/17	1.0	37
	AVERAGES	58.6	46.4	25.7								
	CV (%)	5.0	9.2	6.1								
	LSD (0.10)	3.5	5.1	1.9								

Values in bold are in the upper LSD group.

South Central Kansas Experiment Field, Hutchinson, Reno County; Gary Cramer, agronomist

Nalim loam

Conditions at planting were good, but cool and wet weather in May delayed planting until June. Temperatures above average in June, but close to average the throughout pod development and seed fill. Good weed control.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	4.6	7.8	4.5	8.3	7.2	4.5	37.9
Irrigation:			0.8	1.5	1.4	1.2	4.84

Planted 6/6/2016 at 182000 seeds/ac; harvested 11/17/2016; 11 ft. by 2-row plot; pesticides: Pre-emerge: Gramoxone SL 2 + NIS. Post: Select Max + Roundup Powermax + Warrant + 2,4-DB + NIS + AMS on 6/30, and Roundup Powermax on 7/27

Table 16. Hutchinson, Reno County Irrigated Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	61.9	32.2	--	47.1	--	90	79	--	--	1.5	32
ASGROW	AG4232	71.6	41.1	--	56.3	--	104	101	--	--	2.0	35
CHECK	MG3.5	70.7	38.0	--	54.3	--	102	93	--	--	1.5	30
CHECK	MG3.9	70.9	33.1	--	52.0	--	103	81	--	--	1.5	26
CHECK	MG4.2	76.7	--	--	--	--	111	--	--	--	1.3	32
CHECK	MG4.5	78.5	--	--	--	--	113	--	--	--	1.5	30
LG SEEDS	C4145R2	72.8	--	--	--	--	105	--	--	--	2.0	32
LG SEEDS	C4615RX	67.1	--	--	--	--	97	--	--	--	1.8	40
LG SEEDS	C4780R2	67.4	43.1	48.2	55.3	52.9	98	106	112	--	1.8	40
LG SEEDS	C4845RX	76.2	--	--	--	--	110	--	--	--	1.5	32
LG SEEDS	C4867R2	72.1	43.3	--	57.7	--	104	106	--	--	2.3	35
MIDLAND	3746NR2	71.0	47.5	--	59.2	--	103	116	--	--	1.8	29
MIDLAND	3877NXS	61.3	--	--	--	--	89	--	--	--	2.0	34
MIDLAND	3884NR2	69.9	40.0	--	54.9	--	101	98	--	--	2.3	31
MIDLAND	3926NRS2	74.5	42.4	--	58.4	--	108	104	--	--	1.0	31
MIDLAND	3976NR2	61.1	42.9	--	52.0	--	88	105	--	--	1.5	29
MIDLAND	4247NXS	64.5	--	--	--	--	93	--	--	--	1.8	35
MIDLAND	4263NRS2	65.9	44.1	41.7	55.0	50.6	95	108	97	--	1.3	30
MIDLAND	4636NXS	63.5	--	--	--	--	92	--	--	--	1.5	36
MIDLAND	4677NXS	68.0	--	--	--	--	98	--	--	--	2.0	40
MIDLAND	4806NRS	69.3	--	--	--	--	100	--	--	--	2.0	33
MIDLAND	4956NXS	63.6	--	--	--	--	92	--	--	--	1.5	37
MIDLAND	4963NRS2	72.4	--	40.1	--	--	105	--	93	--	2.0	34
MIDLAND	5286NRS2	71.8	44.0	--	57.9	--	104	108	--	--	2.0	38
PHILLIPS	387 NR2X	79.4	--	--	--	--	115	--	--	--	1.8	33
PHILLIPS	392 NR2YS	62.8	46.0	--	54.4	--	91	113	--	--	1.8	34
PHILLIPS	411 NR2Y	75.5	42.4	42.2	59.0	53.4	109	104	98	--	2.0	32
PHILLIPS	427 NR2XS	67.9	--	--	--	--	98	--	--	--	1.8	36
PHILLIPS	433 NR2YS	69.7	37.2	45.5	53.4	50.8	101	91	106	--	1.3	29
PHILLIPS	447 NR2XS	71.7	--	--	--	--	104	--	--	--	2.0	38
PHILLIPS	454 R2YSE	70.3	43.9	41.4	57.1	51.8	102	107	96	--	2.0	33
PHILLIPS	456 NR2XS	72.8	--	--	--	--	105	--	--	--	2.0	36
PHILLIPS	469 NR2YS	68.8	38.8	49.2	53.8	52.2	100	95	114	--	2.0	38
PHILLIPS	499 NR2YS	70.2	35.6	42.9	52.9	49.6	101	87	100	--	2.0	35
PHILLIPS	506 NR2XS	66.7	--	--	--	--	96	--	--	--	1.8	37
	AVERAGES	69.2	40.8	43.0								
	CV (%)	5.4	7.7	14.1								
	LSD (0.10)	4.4	3.7	7.2								

Values in bold are in the upper LSD group.

Northwest Research-Extension Center, Colby, Thomas County; Pat Evans, agronomist

Good growing conditions and excellent weed control.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	5.3	2.0	1.1	3.2	1.8	1.8	15.2
Irrigation:	4.2	6.0	3.4	6.2	7.7	4.7	32.09

Planted 5/23/2016 at 180000 seeds/ac; harvested 10/3/2016; 20 ft. by 2-row plot; pesticides: Pre-emerge: Enlist Post: 2 applications of Round Up: 6/13/2016, 7/18/2016

Table 17. Colby, Thomas County Irrigated Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	78.4	79.2	--	78.8	--	104	107	--	9/30	1.3	33
ASGROW	AG4232	74.5	69.6	--	72.1	--	99	94	--	10/5	3.3	35
CHECK	MG3.1	70.9	--	--	--	--	94	--	--	9/29	1.0	32
CHECK	MG3.5	77.3	72.5	--	74.9	--	102	97	--	9/29	1.3	31
CHECK	MG3.9	85.3	81.0	--	83.2	--	113	109	--	10/2	2.3	34
CHECK	MG4.2	82.9	--	--	--	--	110	--	--	10/5	1.3	33
CHECK	MG4.5	76.8	--	--	--	--	102	--	--	10/5	1.3	36
KANSAS AES	K4313NRRT	69.7	73.0	--	71.4	--	92	98	--	10/2	2.5	29
KANSAS AES	KS3406RR	71.6	--	--	--	--	95	--	--	9/29	1.1	32
LG SEEDS	C3070R2	76.7	75.9	57.9	76.3	70.2	102	102	--	9/29	1.5	29
LG SEEDS	C3321R2	79.9	61.1	--	70.5	--	106	82	--	9/28	1.3	34
LG SEEDS	C3333RX	69.9	--	--	--	--	93	--	--	9/29	1.0	34
LG SEEDS	C3466R2	75.9	--	--	--	--	101	--	--	9/29	1.3	37
LG SEEDS	C3550RX	78.8	--	--	--	--	105	--	--	9/28	1.3	33
LG SEEDS	C3911RX	77.6	--	--	--	--	103	--	--	10/1	2.0	37
LG SEEDS	C3989R2	84.8	--	--	--	--	112	--	--	10/2	1.8	34
LG SEEDS	C4145R2	83.0	--	--	--	--	110	--	--	10/2	2.5	37
LG SEEDS	C4221R2	74.4	--	--	--	--	99	--	--	10/3	2.5	41
LG SEEDS	C4322R2	79.2	--	--	--	--	105	--	--	10/3	3.0	39
MIDLAND	3746NR2	76.9	--	--	--	--	102	--	--	9/30	1.8	35
MIDLAND	3877NXS	74.7	--	--	--	--	99	--	--	10/2	2.8	40
MIDLAND	3884NR2	80.8	--	71.6	--	--	107	--	--	10/3	1.8	36
MIDLAND	3926NRS2	77.7	85.2	--	81.4	--	103	115	--	10/3	1.8	36
MIDLAND	3976NR2	77.2	77.4	--	77.3	--	102	104	--	10/2	1.8	34
PHILLIPS	375 NR2YS	72.8	73.7	67.2	73.2	71.2	97	99	--	10/2	1.3	37
PHILLIPS	411 NR2Y	71.4	--	--	--	--	95	--	--	10/5	1.8	36
PHILLIPS	427 NR2XS	82.8	--	--	--	--	110	--	--	10/3	2.0	41
PHILLIPS	433 NR2YS	70.8	--	--	--	--	94	--	--	10/5	2.5	37
PHILLIPS	447 NR2XS	75.6	--	--	--	--	100	--	--	10/8	2.0	40
PHILLIPS	454 R2YSE	68.2	--	--	--	--	90	--	--	10/4	2.0	38
PHILLIPS	456 NR2XS	78.5	--	--	--	--	104	--	--	10/3	3.3	41
PHILLIPS	469 NR2YS	67.6	--	--	--	--	90	--	--	10/4	3.3	41
PHILLIPS	499 NR2YS	63.9	--	--	--	--	85	--	--	10/8	2.3	40
PHILLIPS	506 NR2XS	58.6	--	--	--	--	78	--	--	10/9	2.8	39
	AVERAGES	75.4	74.4	66.2								
	CV (%)	6.6	7.9	6.7								
	LSD (0.10)	5.8	6.9	5.3								

Values in bold are in the upper LSD group.

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

Woodson silt loam

Adequate soil moisture at beginning of season with timely planting. Very good, almost irrigated conditions throughout growing season with great yields. Excellent weed control.

April May June July Aug. Sept. Total

Rainfall: 3.9 7.7 1.9 2.2 8.7 0.8 25.1

Planted 6/6/2016 at 155000 seeds/ac; harvested 10/17/2016; 11 ft. by 4-row plot; pesticides: Pre-emerge: 7 oz Authority XL, 1.5 pt Cinch. Post: 1.5 pt Storm, 12 oz Assure", 1 lb/ac AMS, 1 pt/100 gal H2O NIS

Table 18. Ottawa, Franklin County Dryland Conventional Soybean Performance Test, Maturity Groups III-IV, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016			
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)	
ASGROW	AG3432	GR check	69.1	55.1	--	62.1	--	102	--	--	9/26	1.5	40
ASGROW	AG4232	GR check	71.1	58.2	--	64.6	--	105	109	--	10/7	2.0	47
CHECK	MG3.9	GR check	68.3	49.9	--	59.1	--	101	94	--	10/1	1.3	39
CHECK	MG4.2	GR check	78.0	--	--	--	--	115	--	--	10/5	1.8	42
EMERGE GENETICS	e3692s		69.9	51.7	--	60.8	--	103	97	--	10/2	1.5	41
EMERGE GENETICS	e3865		69.9	--	--	--	--	103	--	--	10/1	1.8	38
EMERGE GENETICS	e4194		65.6	--	--	--	--	97	--	--	10/4	1.8	39
EMERGE GENETICS	e4310s		74.2	53.4	--	63.8	--	109	100	--	10/4	1.3	40
EMERGE GENETICS	e4394		62.6	--	--	--	--	92	--	--	10/5	2.0	43
EMERGE GENETICS	e4510s		67.5	--	--	--	--	99	--	--	10/7	2.0	42
IOWA AES	IA3023		65.2	50.5	42.9	57.8	52.8	96	95	106	10/1	1.5	37
IOWA AES	IA4004		66.5	53.3	--	59.9	--	98	100	--	9/29	2.0	40
KANSAS AES	K11-2363B		76.2	56.4	--	66.3	--	112	106	--	10/4	1.3	34
KANSAS AES	K11-2363T		75.4	--	--	--	--	111	--	--	10/5	1.0	32
KANSAS AES	K12-1575		62.5	53.7	--	58.1	--	92	101	--	10/7	2.0	41
KANSAS AES	K12-2333		61.4	55.0	--	58.2	--	90	103	--	10/4	2.0	41
KANSAS AES	K13-1515		65.4	--	--	--	--	96	--	--	10/5	3.5	44
KANSAS AES	K13-1615		66.4	--	--	--	--	98	--	--	10/5	2.0	38
KANSAS AES	K4313NRRT	GR check	64.5	--	--	--	--	95	--	--	10/6	2.0	41
KANSAS AES	KS3406RR	GR check	60.7	--	--	--	--	89	--	--	9/29	1.8	38
KANSAS AES	KS4313N		65.7	55.1	38.3	60.4	53.0	97	104	94	10/5	2.0	41
	AVERAGES		67.9	53.2	40.6								
	CV (%)		5.7	8.6	9.1								
	LSD (0.10)		4.5	5.4	4.4								

Values in bold are in the upper LSD group.

Table 19. Ottawa, Franklin County Dryland Conventional Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016			
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)	
ARKANSAS	OSAGE		77.4	58.2	41.5	67.8	59.0	104	107	112	10/19	3.0	42
ARKANSAS	R09-430		80.0	58.9	40.5	69.4	59.8	108	108	109	10/17	3.0	39
ARKANSAS	R10-230		76.8	--	--	--	--	103	--	--	10/20	3.3	46
ARKANSAS	UA 5014C		64.9	56.3	--	60.6	--	87	103	--	10/15	2.3	43
ARKANSAS	UA 5102		73.9	--	--	--	--	100	--	--	10/15	3.0	44
ARKANSAS	UA 5213C		74.6	49.6	33.3	62.1	52.5	101	91	90	10/16	3.3	44
ARKANSAS	UA 5612C		71.2	44.4	44.1	57.8	53.2	96	82	119	10/18	4.0	48
ARKANSAS	UA 5814HP		67.5	35.5	--	51.5	--	91	65	--	10/22	4.0	48
ARKANSAS	UAX 51010C		73.9	--	--	--	--	100	--	--	10/16	3.0	46
ASGROW	AG5335	GR check	78.4	58.3	--	68.3	--	106	107	--	10/16	1.0	48
CHECK	MG4.9	GR check	81.1	63.3	--	72.2	--	109	116	--	10/13	2.0	46
CHECK	MG5.0	GR check	75.1	--	--	--	--	101	--	--	10/15	1.8	46
EMERGE GENETICS	e4765		70.1	--	--	--	--	94	--	--	10/10	2.0	42
EMERGE GENETICS	e4892s		69.5	--	--	--	--	94	--	--	10/8	3.8	43
EMERGE GENETICS	e4993s		80.8	65.0	--	72.9	--	109	119	--	10/15	2.3	46
EMERGE GENETICS	e4996		75.4	--	--	--	--	102	--	--	10/13	1.5	43
KANSAS AES	K12-1348		74.3	--	--	--	--	100	--	--	10/16	3.5	44
KANSAS AES	K12-1355		81.1	--	--	--	--	109	--	--	10/17	4.0	40
KANSAS AES	K13-1830		70.0	--	--	--	--	94	--	--	10/19	2.8	38
KANSAS AES	KS5004N		67.7	--	--	--	--	91	--	--	10/15	3.0	43
KANSAS AES	KS5502N		68.6	--	--	--	--	92	--	--	10/20	4.0	42
KANSAS AES	KS5507NRR	GR check	74.0	--	--	--	--	100	--	--	10/20	3.8	44
MORSOY	LL 4775		82.2	--	--	--	--	111	--	--	10/9	2.0	44
	AVERAGES		74.3	54.5	37.1								
	CV (%)		6.0	8.5	7.7								
	LSD (0.10)		5.3	5.5	3.5								

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

Parsons Silt Loam

Adequate moisture at planting with sufficient rainfall throughout the growing season led to good yields.

April May June July Aug. Sept. Total
 Rainfall: 5.0 5.5 7.0 6.2 4.3 4.5 38.5

Planted 6/29/2016 at 122,000 seeds/ac; harvested 11/16/2016; 14 ft. by 4-row plot; pesticides: Pre-emerge: 2 pt/ac gramoxone, 2 pt/ac Dual II Magnum, 1.5 lb/ac metribuzin, 6 oz/ac Authority XL

Table 20. Columbus, Cherokee County Dryland Conventional Soybean Performance Test, Maturity Groups III-IV, 2014-2016

BRAND	NAME		ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016		
			2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ASGROW	AG3432	GR check	44.2	59.1	--	51.7	--	125	107	--	9/28	1.0	--
ASGROW	AG4232	GR check	44.4	60.1	--	52.2	--	126	109	--	10/7	1.0	--
CHECK	MG3.9	GR check	36.1	57.9	--	47.0	--	102	105	--	10/5	1.0	--
CHECK	MG4.2	GR check	39.4	--	--	--	--	112	--	--	10/12	1.0	--
EMERGE GENETICS	e3692s		35.5	56.6	--	46.0	--	100	102	--	10/5	1.0	--
EMERGE GENETICS	e3865		35.7	--	--	--	--	101	--	--	10/1	1.0	--
EMERGE GENETICS	e4194		38.2	--	--	--	--	108	--	--	10/3	1.0	--
EMERGE GENETICS	e4310s		37.2	54.8	--	46.0	--	105	99	--	10/5	1.0	--
EMERGE GENETICS	e4394		34.8	--	--	--	--	99	--	--	10/4	1.0	--
EMERGE GENETICS	e4510s		37.9	--	--	--	--	107	--	--	10/5	1.0	--
IOWA AES	IA3023		30.7	47.2	26.3	39.0	34.8	87	85	75	9/26	1.0	--
IOWA AES	IA4004		30.8	46.5	--	38.7	--	87	84	--	10/1	1.0	--
KANSAS AES	K11-2363B		33.1	59.6	--	46.4	--	94	108	--	10/3	1.0	--
KANSAS AES	K11-2363T		32.3	57.9	--	45.1	--	92	105	--	10/3	1.0	--
KANSAS AES	K12-1575		38.0	51.8	--	44.9	--	108	94	--	10/5	1.0	--
KANSAS AES	K12-2333		38.8	61.6	--	50.2	--	110	111	--	10/5	1.0	--
KANSAS AES	K13-1515		32.9	--	--	--	--	93	--	--	10/5	1.0	--
KANSAS AES	K13-1615		35.7	--	--	--	--	101	--	--	10/4	1.0	--
KANSAS AES	K4313NRRT	GR check	25.1	--	--	--	--	71	--	--	9/27	1.0	--
KANSAS AES	KS3406RR	GR check	32.1	--	--	--	--	91	--	--	10/1	1.0	--
KANSAS AES	KS4313N		29.0	--	32.1	--	--	82	--	92	9/27	1.0	--
	AVERAGES		35.3	55.3	35.1								
	CV (%)		12.0	3.7	7.6								
	LSD (0.10)		5.0	2.9	3.2								

Table 21. Columbus, Cherokee County Dryland Conventional Soybean Performance Test, Maturity Groups IV-V, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2016			
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)	
ARKANSAS	OSAGE	45.9	58.2	43.9	52.1	49.4	104	106	101	10/18	1.0	--	
ARKANSAS	R09-430	41.0	59.5	46.4	50.3	49.0	93	108	107	10/14	1.0	--	
ARKANSAS	R10-230	43.1	--	--	--	--	97	--	--	10/19	1.0	--	
ARKANSAS	UA 5014C	46.4	54.9	--	50.7	--	105	100	--	10/14	1.0	--	
ARKANSAS	UA 5102	43.6	--	--	--	--	99	--	--	10/15	1.0	--	
ARKANSAS	UA 5213C	45.9	61.2	39.6	53.5	48.9	104	111	91	10/17	1.0	--	
ARKANSAS	UA 5612C	40.7	50.9	47.3	45.8	46.3	92	93	109	10/20	1.0	--	
ARKANSAS	UA 5814HP	44.8	49.8	--	47.3	--	101	91	--	10/21	1.0	--	
ARKANSAS	UAX 51010C	41.5	--	--	--	--	94	--	--	10/15	1.0	--	
ASGROW	AG5335	46.8	56.0	--	51.4	--	106	102	--	10/17	1.0	--	
CHECK	MG4.9	47.8	55.6	--	51.7	--	108	101	--	10/15	1.0	--	
CHECK	MG5.0	47.8	--	--	--	--	108	--	--	10/17	1.0	--	
EMERGE GENETICS	e4765	45.5	--	--	--	--	103	--	--	10/14	1.0	--	
EMERGE GENETICS	e4892s	42.9	--	--	--	--	97	--	--	10/9	1.0	--	
EMERGE GENETICS	e4993s	44.9	59.7	--	52.3	--	101	109	--	10/16	1.0	--	
EMERGE GENETICS	e4996	43.1	--	--	--	--	97	--	--	10/15	1.0	--	
KANSAS AES	K12-1348	42.5	56.3	--	49.4	--	96	102	--	10/17	1.0	--	
KANSAS AES	K12-1355	44.7	48.0	--	46.3	--	101	87	--	10/16	1.0	--	
KANSAS AES	K13-1830	44.8	--	--	--	--	101	--	--	10/17	1.0	--	
KANSAS AES	KS5004N	40.1	52.7	--	46.4	--	91	96	--	10/13	1.0	--	
KANSAS AES	KS5502N	43.1	52.7	--	47.9	--	98	96	--	10/18	1.0	--	
KANSAS AES	KS5507NRR	46.1	--	--	--	--	104	--	--	10/19	1.0	--	
MORSOY	LL 4775	44.6	--	--	--	--	101	--	--	10/14	1.0	--	
	AVERAGES	44.2	55.0	43.4									
	CV (%)	8.0	6.0	8.1									
	LSD (0.10)	4.2	3.9	4.3									

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

Good growing conditions and excellent weed control.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	4.0	8.2	1.0	6.2	6.7	2.2	30.2
Irrigation:			1.3	3.8	1.3		6.25

Planted 6/7/2016 at 167000 seeds/ac; harvested 10/24/2016; 26 ft. by 4-row plot; pesticides: Pre-emerge: Makaze (Glyphosate) 1 qt + Salvo (2,4-D) 1 pt. Post: Cobra 12.5 oz + 10oz Intensity One

Table 22. Scandia, Republic County Irrigated Conventional Soybean Performance Test, 2014-2016

BRAND	NAME	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2016		
		2016	2015	2014	2-Yr. AVG.	3-Yr. AVG.	2016	2015	2014	Mat	Lodge score	Ht (in)
ARKANSAS	OSAGE	35.5	--	--	--	--	73	--	--	--	1.0	42
ARKANSAS	R09-430	46.7	--	--	--	--	97	--	--	--	1.0	38
ARKANSAS	R10-230	48.5	--	--	--	--	101	--	--	--	1.0	42
ARKANSAS	UA 5014C	41.5	--	--	--	--	86	--	--	--	1.0	43
ARKANSAS	UA 5102	42.3	--	--	--	--	88	--	--	--	1.0	43
ARKANSAS	UA 5213C	38.7	--	--	--	--	80	--	--	--	1.0	40
ARKANSAS	UA 5612C	40.1	--	--	--	--	83	--	--	--	1.0	38
ARKANSAS	UA 5814HP	44.8	--	--	--	--	93	--	--	--	1.0	44
ARKANSAS	UAX 51010C	39.3	--	--	--	--	82	--	--	--	1.0	39
ASGROW	AG3432	GR check	55.2	64.1	--	59.7	--	114	104	--	1.0	42
ASGROW	AG4232	GR check	41.9	55.7	--	48.8	--	87	90	--	1.0	47
CHECK	MG3.9	GR check	53.4	57.6	--	55.5	--	111	94	--	1.0	39
CHECK	MG4.2	GR check	57.0	--	--	--	--	118	--	--	1.0	46
EMERGE GENETICS	e3692s	54.2	58.9	--	56.6	--	112	96	--	--	1.0	39
EMERGE GENETICS	e3865	53.4	--	--	--	--	111	--	--	--	1.0	40
EMERGE GENETICS	e4194	45.4	--	--	--	--	94	--	--	--	1.0	41
EMERGE GENETICS	e4310s	59.3	50.3	--	54.8	--	123	82	--	--	1.0	39
EMERGE GENETICS	e4394	43.3	--	--	--	--	90	--	--	--	1.0	42
EMERGE GENETICS	e4510s	44.2	--	--	--	--	91	--	--	--	1.0	41
GOLDEN HARVEST *	S30-C1	49.1	--	--	--	--	102	--	--	--	1.0	33
GOLDEN HARVEST	S34-P7	48.8	--	--	--	--	101	--	--	--	1.0	35
GOLDEN HARVEST	S35-A5	49.7	--	--	--	--	103	--	--	--	1.0	42
GOLDEN HARVEST	S36-Y6	42.4	--	--	--	--	88	--	--	--	1.0	40
GOLDEN HARVEST	S38-W4	52.7	--	--	--	--	109	--	--	--	1.0	42
GOLDEN HARVEST	S39-T3	56.3	--	--	--	--	117	--	--	--	1.0	40
IOWA AES	IA3023	49.8	64.0	--	56.9	--	103	104	--	--	1.0	36
IOWA AES	IA4004	48.2	63.5	--	55.9	--	100	103	--	--	1.0	40
KANSAS AES	K11-2363B	52.3	65.7	--	59.0	--	108	107	--	--	1.0	32
KANSAS AES	K11-2363T	53.2	66.0	--	59.6	--	110	107	--	--	1.0	35
KANSAS AES	K12-1575	47.0	65.9	--	56.4	--	97	107	--	--	1.0	36
KANSAS AES	K12-2333	47.4	55.8	--	51.6	--	98	91	--	--	1.0	40
KANSAS AES	K13-1515	58.0	--	--	--	--	120	--	--	--	1.0	44
KANSAS AES	K13-1615	48.4	--	--	--	--	100	--	--	--	1.0	38
KANSAS AES	K4313NRRT	GR check	48.4	--	--	--	100	--	--	--	1.0	41
KANSAS AES	KS3406RR	GR check	54.4	--	--	--	113	--	--	--	1.0	40
KANSAS AES	KS4313N	48.3	--	--	--	--	100	--	--	--	1.0	38
	AVERAGES	48.3	61.6	--	--	--	--	--	--	--	--	--
	CV (%)	8.6	7.4	--	--	--	--	--	--	--	--	--
	LSD (0.10)	5.6	6.2	--	--	--	--	--	--	--	--	--

Values in bold are in the upper LSD group.

*GOLDEN HARVEST ARE GLYPHOSATE RESISTANT VARIETIES.

Table 23. Yield as a Percentage of Test Average from 2016 Glyphosate-Resistant Soybean Tests

BRAND/NAME	Topeka		Ottawa	Parsons		McCune		Erie		Pitts.	Scandia	Belle-		Hutch-		Colby	AVG
	Onaga	dryland		irrigated	MG4	MG 5	MG 4	MG 5	MG 4			MG 5	ville	Assaria	inson		
ARKANSAS																	
R07-6614RR	--	--	--	--	92	--	93	--	98	--	--	--	--	--	--	--	94
R10-197RY	--	--	--	--	100	--	96	--	93	--	--	--	--	--	--	--	96
R11-89RY	--	--	--	--	104	--	107	--	100	--	--	--	--	--	--	--	104
UA 5414RR	--	--	--	--	97	--	95	--	98	--	--	--	--	--	--	--	96
ASGROW																	
AG3432	98	--	111	105	103	--	90	--	106	--	--	105	105	89	90	104	103
AG4232	96	--	104	107	109	--	109	--	93	--	97	97	94	108	104	99	102
AG5335	--	--	--	--	104	--	98	--	96	107	--	--	--	--	--	--	103
CHECK																	
MG3.1	97	--	--	--	--	--	--	--	--	--	--	93	85	--	--	94	92
MG3.5	92	--	106	107	98	--	91	--	98	--	--	100	102	94	102	102	99
MG3.9	105	--	104	107	99	--	89	--	109	--	--	102	98	107	103	113	103
MG4.2	94	--	100	113	100	--	98	--	96	--	80	111	101	103	111	110	104
MG4.5	98	--	110	96	101	--	98	--	100	--	84	105	103	101	113	102	101
MG4.9	--	--	--	--	--	104	--	101	--	97	111	--	--	--	--	--	105
MG5.0	--	--	--	--	100	--	95	--	98	95	--	--	--	--	--	--	99
FRONTIER SEED																	
3SR92	102	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	102
4SR82	--	--	--	--	90	--	--	--	--	--	--	--	--	--	--	--	90
51GT02	--	--	--	--	82	--	--	--	--	--	--	--	--	--	--	--	82
GOLDEN HARVEST																	
S28-N6	--	--	--	--	--	--	--	--	--	--	--	--	85	--	--	--	85
S30-C1	--	--	--	--	--	--	--	--	--	--	--	--	97	--	--	--	97
S35-A5	--	--	--	--	--	--	--	--	--	--	--	--	105	--	--	--	105
S36-Y6	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--	--	100
S38-W4	--	--	--	--	--	--	--	--	--	--	--	--	100	--	--	--	100
S39-T3	--	107	105	--	--	--	--	--	--	--	--	--	109	--	--	--	109
KANSAS AES																	
K4313NRRT	95	87	--	98	--	--	--	--	95	--	--	97	88	--	--	92	92
KS3406RR	90	94	99	95	--	--	--	--	88	--	--	98	101	--	--	95	96
LG SEEDS																	
C3070R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	102	102
C3321R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	106	106
C3333RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	93	93
C3466R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	101	101
C3550RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105	105
C3911RX	102	--	--	--	--	--	--	--	--	--	--	--	--	--	--	103	103
C3989R2	108	--	--	--	--	--	--	--	--	--	--	--	--	--	--	112	110
C4145R2	111	--	--	--	--	--	--	--	--	--	--	--	--	--	105	110	109
C4221R2	97	--	--	--	--	--	--	--	--	--	--	--	--	--	--	99	98
C4322R2	107	--	--	--	--	--	--	--	--	--	--	--	--	--	--	105	106
C4615RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	97	--	97
C4780R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	98	--	98
C4845RX	--	--	--	--	--	--	--	--	--	--	--	--	--	--	110	--	110
C4867R2	--	--	--	--	--	--	--	--	--	--	--	--	--	--	104	--	104

Table 23 continued. Yield as a Percentage of Test Average from 2016 Glyphosate-Resistant Soybean Tests

BRAND/NAME	Topeka		Ottawa	Parsons		McCune		Erie		Pitts.	Scandia	Belle-	Assaria	Hutch-	Colby	AVG	
	Onaga	dryland		irrigated	MG4	MG 5	MG 4	MG 5	MG 4			MG 5		ville			inson
MIDLAND																	
3465NR2	--	--	--	--	--	--	--	--	--	--	--	109	--	--	--	109	
3537NX	99	--	97	--	--	--	--	--	--	--	107	104	--	--	--	102	
3633NR2	--	103	--	105	--	--	--	--	--	--	--	99	--	--	--	102	
3657NR2	101	--	108	--	--	--	--	--	--	--	96	104	--	--	--	102	
3746NR2	--	--	--	--	--	--	--	--	--	--	--	--	89	103	102	98	
3877NXS	--	--	--	--	--	--	--	--	--	--	--	--	103	89	99	97	
3884NR2	--	--	--	--	--	--	--	--	--	--	--	--	96	101	107	101	
3887NX	98	97	109	--	--	--	--	--	--	--	99	102	--	--	--	101	
3926NRS2	93	104	119	105	--	--	--	--	--	--	107	108	98	108	103	105	
3976NR2	--	--	--	--	--	--	--	--	--	--	--	--	99	88	102	96	
3983NR2	106	105	108	104	--	--	--	--	--	--	105	112	--	--	--	107	
4247NXS	--	99	90	98	--	--	--	--	--	--	100	98	106	93	--	98	
4263NRS2	--	--	--	--	--	--	--	--	--	--	--	--	105	95	--	100	
4373NR2	--	103	--	108	--	--	--	--	--	--	--	--	--	--	--	106	
4636NXS	--	--	--	--	--	--	--	--	--	--	--	--	102	92	--	97	
4677NXS	--	100	101	93	109	--	108	--	101	--	106	--	113	98	--	103	
4797NRS2	--	--	--	99	--	97	--	99	--	104	98	--	--	--	--	99	
4806NRS	--	--	--	--	--	--	--	--	--	--	--	--	100	100	--	100	
4956NXS	--	--	--	101	--	105	--	98	--	110	104	--	--	98	92	--	101
4963NRS2	--	--	--	91	--	108	--	107	--	--	101	--	--	108	105	--	103
5286NRS2	--	--	--	--	--	100	--	102	--	--	113	--	--	112	104	--	106
MORSOY																	
3932 RXT	102	100	91	106	--	--	--	--	--	--	--	--	--	--	--	99	
40X46	112	105	100	112	--	--	--	--	--	--	--	--	--	--	--	108	
41x04	95	101	91	92	--	--	--	--	--	--	--	--	--	--	--	95	
4206 RXT	--	84	98	102	--	--	--	--	--	--	--	--	--	--	--	95	
4272 RXT	--	101	103	95	--	--	--	--	--	--	--	--	--	--	--	100	
4426 RXT	--	102	107	114	105	--	113	--	102	--	110	--	--	--	--	107	
4486 RXT	--	103	108	96	100	--	106	--	81	--	101	--	--	--	--	99	
4535 RXT	--	106	93	103	113	--	111	--	113	--	98	--	--	--	--	105	
4616 RXT	--	--	--	100	99	--	105	--	107	--	89	--	--	--	--	100	
4656 RXT	--	--	--	87	107	--	109	--	112	--	109	--	--	--	--	105	
4706 RXT	--	--	--	82	--	105	--	101	--	102	109	--	--	--	--	100	
48x22	--	--	--	--	--	107	--	100	--	96	97	--	--	--	--	100	
5050 RXT	--	--	--	--	--	104	--	101	--	103	101	--	--	--	--	102	
52x25	--	--	--	--	--	103	--	103	--	104	98	--	--	--	--	102	
PHILLIPS																	
375 NR2YS	100	88	94	--	--	--	--	--	--	--	96	92	90	--	97	94	
387 NR2X	92	97	101	103	--	--	--	--	--	--	105	108	98	115	--	102	
392 NR2YS	92	96	89	95	--	--	--	--	--	--	93	92	100	91	--	94	
411 NR2Y	109	99	114	107	--	--	--	--	--	--	100	102	95	109	95	103	
427 NR2XS	93	89	81	89	--	--	--	--	--	--	86	104	103	98	110	95	
433 NR2YS	107	95	85	98	--	--	--	--	--	--	99	97	99	101	94	97	
447 NR2XS	101	102	110	92	--	--	--	--	--	--	100	97	102	104	100	101	
454 R2YSE	95	102	89	104	--	--	--	--	--	--	--	--	96	102	90	97	
456 NR2XS	107	111	81	104	--	--	--	--	--	--	--	--	113	105	104	104	
469 NR2YS	107	99	102	98	--	--	--	--	--	--	--	--	108	100	90	100	
499 NR2YS	--	--	--	--	--	--	--	--	--	--	--	--	109	101	85	98	
506 NR2XS	--	--	--	--	--	--	--	--	--	--	--	--	--	96	78	87	

Table 23 continued. Yield as a Percentage of Test Average from 2016 Glyphosate-Resistant Soybean Tests

BRAND/NAME	Topeka		Ottawa	Parsons		McCune		Erie		Pitts.	Scandia	Belle-	Hutch-	Colby	AVG
	Onaga	dryland		irrigated	MG4	MG 5	MG 4	MG 5	MG 4			MG 5	ville		
WILLCROSS															
WXE 3386N	105	93	111	90	--	--	--	--	--	--	--	--	--	--	100
WXE 3396N	90	108	108	112	--	--	--	--	--	--	--	--	--	--	105
WXE 3456NS	--	101	105	101	96	--	106	--	--	--	--	--	--	--	102
WXE 3466NS	--	100	99	90	102	--	109	--	--	--	--	--	--	--	100
WXE 3486NS	--	--	--	--	--	102	--	104	--	--	98	--	--	--	101
WXE 3496N	--	--	--	--	--	93	--	100	--	--	106	--	--	--	99
WXE 3546N	--	--	--	--	--	105	--	100	--	--	101	--	--	--	102
WXX 3376N	108	--	--	--	--	--	--	--	--	--	--	--	--	--	108
WXX 3426NS	97	94	89	88	--	--	--	--	--	--	--	--	--	--	92
WXX 3446NS	--	103	101	113	--	--	--	--	--	--	--	--	--	--	105

Table 24. Yield as a Percentage of Test Average from 2016 Conventional/Liberty Link Soybean Tests

BRAND/NAME	Ottawa MG4	Ottawa MG5	Scandia	Parsons MG 4	Parsons MG 5	AVG	
ARKANSAS							
OSAGE	--	104	73	--	104	94	
R09-430	--	108	97	--	93	99	
R10-230	--	103	101	--	97	100	
UA 5014C	--	87	86	--	105	93	
UA 5102	--	100	88	--	99	95	
UA 5213C	--	101	80	--	104	95	
UA 5612C	--	96	83	--	92	90	
UA 5814HP	--	91	93	--	101	95	
UAX 51010C	--	100	82	--	94	92	
ASGROW							
AG3432	GR check	102	--	114	125	--	103
AG4232	GR check	105	--	87	126	--	102
AG5335	GR check	--	106	--	--	106	103
CHECK							
MG3.9	GR check	101	--	111	102	--	103
MG4.2	GR check	115	--	118	112	--	104
MG4.9	GR check	--	109	--	--	108	105
MG5.0	GR check	--	101	--	--	108	99
EMERGE GENETICS							
e3692s		103	--	112	100	--	105
e3865		103	--	111	101	--	105
e4194		97	--	94	108	--	100
e4310s		109	--	123	105	--	112
e4394		92	--	90	99	--	93
e4510s		99	--	91	107	--	99
e4765		--	94	--	--	103	99
e4892s		--	94	--	--	97	95
e4993s		--	109	--	--	101	105
e4996		--	102	--	--	97	99
GOLDEN HARVEST							
S34-P7	GR variety	--	--	101	--	--	101
S35-A5	GR variety	--	--	103	--	--	104
S36-Y6	GR variety	--	--	88	--	--	94
S38-W4	GR variety	--	--	109	--	--	104
S39-T3	GR variety	--	--	117	--	--	109
IOWA AES							
IA3023		96	--	103	87	--	95
IA4004		98	--	100	87	--	95

Table 24 continued. Yield as a Percentage of Test Average from 2016 Conventional/Liberty Link Soybean Tests

BRAND/NAME		Ottawa MG4	Ottawa MG5	Scandia	Parsons MG 4	Parsons MG 5	AVG
KANSAS AES							
K11-2363B		112	--	108	94	--	105
K11-2363T		111	--	110	92	--	104
K12-1348		--	100	--	--	96	98
K12-1355		--	109	--	--	101	105
K12-1575		92	--	97	108	--	99
K12-2333		90	--	98	110	--	99
K13-1515		96	--	120	93	--	103
K13-1615		98	--	100	101	--	100
K13-1830		--	94	--	--	101	98
K4313NRRT	GR check	95	--	100	71	--	92
KS3406RR	GR check	89	--	113	91	--	96
KS4313N		97	--	100	82	--	93
KS5004N		--	91	--	--	91	91
KS5502N		--	92	--	--	98	95
MORSOY							
LL 4775		--	111	--	--	101	106

Table 25. Description of Glyphosate-Resistant Entries in Soybean Performance Tests

BRAND	NAME	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
					R1	R3	R4	R14	Source	RR	Tolerance	
ARKANSAS	R07-6614RR	5.7	--	--	--	--	--	--	--	--	--	--
ARKANSAS	R10-197RY	5.6	--	--	--	--	--	--	--	--	--	--
ARKANSAS	R11-89RY	5.4	--	--	--	--	--	--	--	--	--	--
ARKANSAS	UA 5414RR	5.4	W	BF	--	--	--	--	--	--	--	--
ASGROW	AG3432	3.0	P	IB	--	MR	--	--	PI88788	S	7.0	--
ASGROW	AG4232	4.0	--	--	--	--	--	--	--	--	--	--
ASGROW	AG5335	5.0	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.1	3.1	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.5	3.0	--	--	--	--	--	--	--	--	--	--
CHECK	MG3.9	3.0	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.2	4.0	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.5	4.0	--	--	--	--	--	--	--	--	--	--
CHECK	MG4.9	4.9	--	--	--	--	--	--	--	--	--	--
CHECK	MG5.0	5.0	--	--	--	--	--	--	--	--	--	--
FRONTIER SEED	3SR92	3.9	W	Bf	--	R	--	R	--	Rps1c	3.0	--
FRONTIER SEED	4SR82	4.8	--	--	--	--	--	--	--	--	--	--
FRONTIER SEED	51GT02	5.1	--	--	--	--	--	--	--	--	--	--
GOLDEN HARVEST	S28-N6	2.8	--	--	--	--	--	--	--	--	--	--
GOLDEN HARVEST	S30-C1	3.0	P	BL	--	R	--	--	PI88788	--	5.0	--
GOLDEN HARVEST	S34-P7	3.4	W	Bl	--	R	--	R	PI88788	--	3.0	--
GOLDEN HARVEST	S35-A5	3.5	W	BL	--	R	--	R	PI88788	--	5.0	--
GOLDEN HARVEST	S36-Y6	3.6	--	--	--	--	--	--	--	--	--	--
GOLDEN HARVEST	S38-W4	3.8	W	BL	--	--	--	R	PI88788	--	4.0	--
GOLDEN HARVEST	S39-T3	3.9	W	Bl	--	R	--	R	PI88788	--	4.0	--
KANSAS AES	K4313NRRRT	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS3406RR	3.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS5507NRR	5.0	P	IB	R	R	R	R	PI437654	--	--	--
LG SEEDS	C3070R2	3.0	P	IB	--	R	--	R	PI88788	1k	2.0	--
LG SEEDS	C3321R2	3.3	P	lb	--	--	--	--	--	--	--	--
LG SEEDS	C3333RX	3.3	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C3466R2	3.4	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C3550RX	3.5	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C3911RX	3.9	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C3989R2	3.9	P	IB	--	R	--	MR	--	Rps1k	--	--
LG SEEDS	C4145R2	4.1	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C4221R2	4.2	P	Bl	--	R	--	R	--	--	--	--
LG SEEDS	C4322R2	4.3	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C4615RX	4.6	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C4780R2	4.7	P	IB	--	R	--	R	PI88788	1c	2.0	--
LG SEEDS	C4845RX	4.8	--	--	--	--	--	--	--	--	--	--
LG SEEDS	C4867R2	4.8	P	Bl	--	R	--	R	--	--	--	--
MIDLAND	3465NR2	3.4	--	--	--	R	--	--	PI88788	--	2.0	--
MIDLAND	3537NX	3.5	--	--	--	--	--	--	--	--	--	--
MIDLAND	3633NR2	3.6	--	--	--	R	--	MR	PI88788	--	1.7	--
MIDLAND	3657NR2	3.6	--	--	--	--	--	--	--	--	--	--
MIDLAND	3746NR2	3.7	--	--	--	R	--	MR	PI88788	--	2.0	--
MIDLAND	3877NXS	3.8	--	--	--	--	--	--	--	--	--	--
MIDLAND	3884NR2	3.8	--	--	--	R	--	R	PI88788	--	2.0	--
MIDLAND	3887NX	3.8	--	--	--	--	--	--	--	--	--	--
MIDLAND	3926NRS2	3.9	--	--	--	R	--	MR	PI88788	--	2.0	--
MIDLAND	3976NR2	3.9	--	--	--	R	--	MR	PI88788	--	2.0	--
MIDLAND	3983NR2	3.9	--	--	--	R	--	MR	PI88788	--	1.7	--
MIDLAND	4247NXS	4.2	--	--	--	--	--	--	--	--	--	--
MIDLAND	4263NRS2	4.2	--	--	--	R	--	MR	PI88788	--	2.5	STS
MIDLAND	4373NR2	4.3	--	--	--	R	--	MR	PI87788	--	2.0	--
MIDLAND	4636NXS	4.6	--	--	--	--	--	--	--	--	--	--
MIDLAND	4677NXS	4.6	--	--	--	--	--	--	--	--	--	--
MIDLAND	4797NRS2	4.7	--	--	--	--	--	--	--	--	--	--
MIDLAND	4806NRS	4.8	--	--	--	R	--	MR	PI88788	Rpa1a	3.6	STS
MIDLAND	4956NXS	4.9	--	--	--	--	--	--	--	--	--	--
MIDLAND	4963NRS2	4.9	--	--	--	R	--	MR	PI88788	--	2.2	STS

Table 25 continued. Description of Roundup Resistant Entries in Soybean Performance Tests

BRAND	NAME	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
					R1	R3	R4	R14	Source	RR	Tolerance	
MIDLAND	5286NRS2	5.2	--	--	--	R	--	MR	PI88788	--	2.0	--
MORSOY	3932 RXT	3.9	--	--	--	--	--	--	--	--	--	--
MORSOY	40X46	4.0	--	--	--	--	--	--	--	--	--	--
MORSOY	41x04	4.1	P	Bl	--	R	--	MR	PI88788	--	3.0	--
MORSOY	4206 RXT	4.2	--	--	--	--	--	--	--	--	--	--
MORSOY	4272 RXT	4.2	--	--	--	--	--	--	--	--	--	--
MORSOY	4426 RXT	4.4	--	--	--	--	--	--	--	--	--	--
MORSOY	4486 RXT	4.4	--	--	--	--	--	--	--	--	--	--
MORSOY	4535 RXT	4.5	--	--	--	--	--	--	--	--	--	--
MORSOY	4616 RXT	4.6	--	--	--	--	--	--	--	--	--	--
MORSOY	4656 RXT	4.6	--	--	--	--	--	--	--	--	--	--
MORSOY	4706 RXT	4.7	--	--	--	--	--	--	--	--	--	--
MORSOY	48x22	4.8	W	Bl	--	R	--	MR	PI88788	--	2.0	--
MORSOY	5050 RXT	5.0	--	--	--	--	--	--	--	--	--	--
MORSOY	52x25	5.2	P	Bl	--	R	--	MR	PI88788	Rps1c	3.0	--
PHILLIPS	375 NR2YS	3.7	P	Bl	--	R	--	MR	PI88788	Rps1c	9.0	--
PHILLIPS	387 NR2X	3.8	--	--	--	--	--	--	--	--	--	--
PHILLIPS	392 NR2YS	3.9	W	Bf	--	MR	--	--	PI88788	Rps1c	2.0	--
PHILLIPS	411 NR2Y	4.1	P	Bl	--	R	--	MR	PI88788	Rps1a	2.0	--
PHILLIPS	427 NR2XS	4.2	--	--	--	--	--	--	--	--	--	--
PHILLIPS	433 NR2YS	4.3	P	Bf	--	R	--	MR	PI88788	Rps1c	2.0	--
PHILLIPS	447 NR2XS	4.4	--	--	--	--	--	--	--	--	--	--
PHILLIPS	454 R2YSE	4.5	P	Bl	--	--	--	--	--	Rps1c	2.0	--
PHILLIPS	456 NR2XS	4.6	--	--	--	--	--	--	--	--	--	--
PHILLIPS	469 NR2YS	4.6	W	Bf	--	MR	--	--	PI88788	Rps1c	1.0	--
PHILLIPS	499 NR2YS	4.9	W	Bl	--	R	--	MR	PI88788	--	3.0	--
PHILLIPS	506 NR2XS	5.0	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3386N	3.8	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3396N	3.9	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3456NS	4.5	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3466NS	4.6	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3486NS	4.8	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3496N	4.9	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXE 3546N	5.4	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXX 3376N	3.7	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXX 3426NS	4.2	--	--	--	--	--	--	--	--	--	--
WILLCROSS	WXX 3446NS	4.4	--	--	--	--	--	--	--	--	--	--

Table 26. Description of Conventional Entries in 2016 Soybean Performance Tests

BRAND	NAME	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora		STS
					R1	R3	R4	R14	Source	RR	Tolerance	
ARKANSAS	OSAGE	5.6	P	IB	--	--	--	--	--	--	--	--
ARKANSAS	R09-430	5.1	P	--	--	--	--	--	--	--	--	--
ARKANSAS	R10-230	5.6	W	Bf	--	--	--	--	--	--	--	--
ARKANSAS	UA 5014C	5.0	P	Bl	--	--	--	--	--	--	--	--
ARKANSAS	UA 5102	4.9	--	--	--	--	--	--	--	--	--	--
ARKANSAS	UA 5213C	5.2	P	BF	--	--	--	--	--	--	--	--
ARKANSAS	UA 5612C	5.6	P	IB	--	--	--	--	--	--	--	--
ARKANSAS	UA 5814HP	5.8	P	Br	--	--	--	--	--	--	--	--
ARKANSAS	UAX 51010C	5.1	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e3692s	3.0	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e3865	3.8	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4194	4.2	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4310s	4.0	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4394	4.3	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4510s	4.5	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4765	4.7	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4892s	4.8	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4993s	4.9	--	--	--	--	--	--	--	--	--	--
EMERGE GENETICS	e4996	4.9	--	--	--	--	--	--	--	--	--	--
IOWA AES	IA3023	3.0	P	Y	S	S	S	S	--	S	--	--
IOWA AES	IA4004	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K11-2363B	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K11-2363T	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K12-1348	5.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K12-1355	5.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K12-1575	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K12-2333	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K13-1515	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K13-1615	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	K13-1830	5.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS4313N	4.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS5004N	5.0	--	--	--	--	--	--	--	--	--	--
KANSAS AES	KS5502N	5.0	--	--	--	--	--	--	--	--	--	--
MORSOY	LL 4775	4.7	--	--	--	--	--	--	--	--	--	--

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.

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