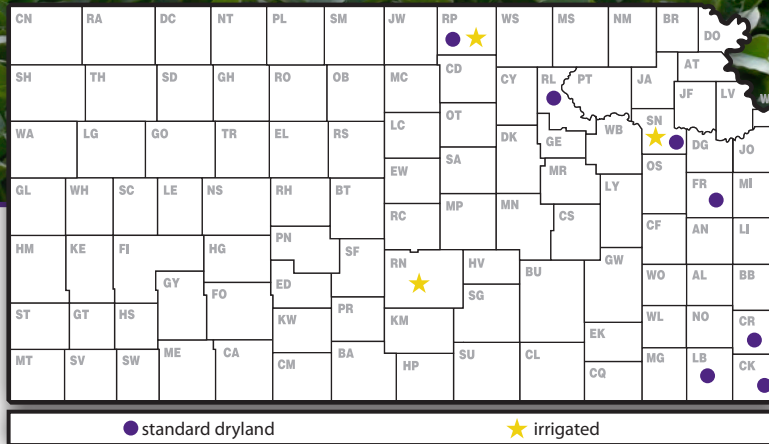
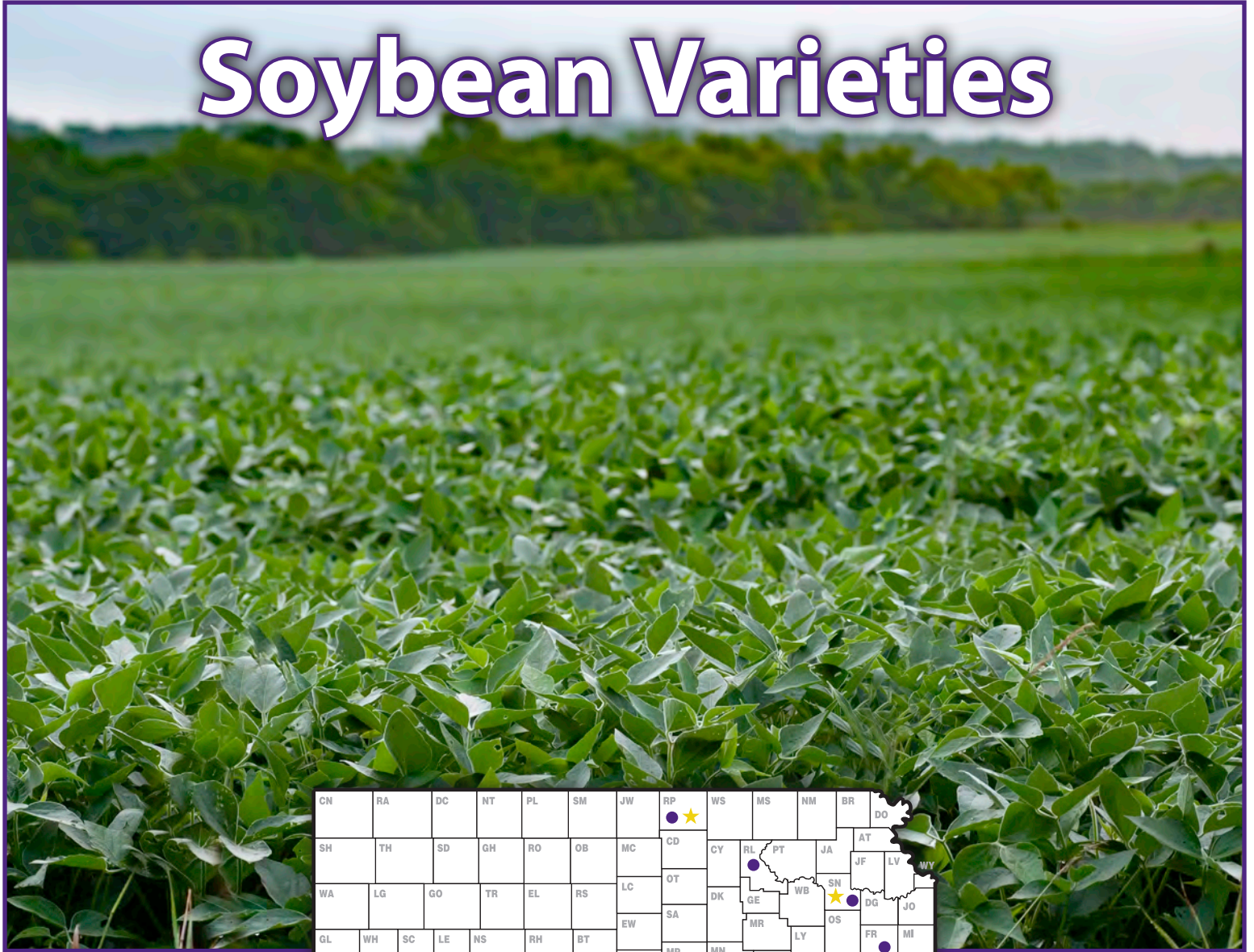


# 2020 Kansas Performance Tests with

# Soybean Varieties



## Report of Progress 1160



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# 2020 KANSAS SOYBEAN PERFORMANCE TESTS

## STATEWIDE GROWING CONDITIONS

The 2020 soybean season had an overall favorable weather pattern for the state. Planting progress was normal for soybeans, promoting good conditions for early-season uniformity of the crop. Even stands can set the crop to a successful growing season.

During the growing season, planting condition was normal, but some stress level (lack of precipitation ) was observed for central and north central parts of the state closer to the seed filling period, August. Yield impact of drought conditions varied with the planting time, soil conditions (water storage capacity), and productivity. Impact of drought around seed filling can reduce 30-40% of yields under severe stress due to the affect on pod abortion, seed number, and size.

Hail was also a problem across the state. There were 572 reports of large hail through September 30. Of those events, 201 were reported in May. Hail has a larger impact when occurring during flowering or 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).

As related to the precipitation conditions, most divisions averaged above normal for the period of April 1 through October 31. The driest area was in the Northwest, where the divisional average was 11.51 inches or 66% of normal. The Northeast division came closest to normal, with a divisional average of 23.42 inches, 89% of normal. The Southeast division faced the challenge of a rapid switch from extremely wet to extremely dry conditions.

For soybeans, temperatures were not as much of a factor. The warmest readings were seen in mid-July, with the highest reading of 108°F reported on July 1 at Ashland, Clark County, and July 19 at Healy, Lane County.

The first autumn freezes were near average, with Colby dropping to 32°F on October 18, and Columbus reaching 30°F on October 27.

Harvesting conditions for many regions were ideal, with a large progress achieved by mid-October. In November, the USDA forecasted a soybean yield of 42 bushels per acre for the state of Kansas for the 2020 season, up 0.5 compared to the final yield recorded for the 2019 growing season (Ignacio A. Ciampitti and Mary Knapp, Department of Agronomy).

## DISEASES

In 2020, soybean disease reports were lower than in previous years. In general, very little frogeye leaf spot was reported. In northeast Kansas, sudden death syndrome was observed, but overall prevalence was low.

Charcoal rot was severe in some locations, particularly in the central part of the state and was likely due to unseasonable dry weather during critical reproductive stages in August and September.

Phytophthora root rot was present in eastern Kansas. This disease has been increasing in importance in recent years, particularly in soils with high clay content and poor drainage.

Stem canker, pod and stem blight, and Septoria brown spot were occasionally present, but rarely at yield limiting levels. (Rodrigo Borba Onofre, Department of Plant Pathology)

## INSECTS

Soybean pest problems were much reduced in 2020, compared to previous years. There were a few defoliators, as always, but no one species seemed to dominate, as some have in the past.

There were reports of green cloverworms, thistle caterpillars, bean leaf beetles, grasshoppers, and webworms, but no real "outbreaks" of any one pest.

Bean leaf beetle and soybean podworm feeding on pods and beans within the pods seemed to also be much reduced and therefore had very little impact on yield. (Jeff Whitworth, Department of Entomology)

## 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 15. Relative yields of each entry from all locations are shown in Table 16.

### DATA INTERPRETATION

**Yields** are recorded as bushels per acre (60 lb/bushel) adjusted to 13% moisture content, when moisture data are available. Seed yield is also 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 should not be overemphasized. 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 2020 Kansas Soybean Performance Tests**

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

**University of Arkansas**  
Fayetteville, AR  
479-575-6807

**Biomineral Systems LLC**  
South Bend, IN  
574-222-1332

**Corteva AgriSciences**  
Johnston, IA  
800-233-7333  
pioneer.com  
\* maturity checks

**GDM Seeds, Inc**  
*DonMario, Virtue*  
Gibson City, IL  
217-784-8475

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

**University of Missouri**  
Portageville, MO  
573-379-5431

**Monsanto**  
St. Louis, MO  
800-768-6387  
aganytime.com/asgrow  
\*maturity checks

**Nutrien**  
*Dyna-Gro*  
Goddard, KS  
316-794-2231

**Stratton Seed**  
Stuttgart, AR  
800-264-4433  
strattonseed.com

**Dave Regher Farm, Riley, Riley County; Bill Schapaugh, agronomist**

Planting conditions were no-till, with good soil moisture that allowed excellent closing of the furrow. Growing conditions were favorable throughout the year with the exception of July, which was an abnormally wet. There was fairly good grain fill. Harvest was dry with the exception of the plants being tough to thresh.

April May June July Aug. Sept. Total  
 Rainfall: 1.8 3.0 2.8 9.6 2.6 1.5 21.7

Planted 5/18/2020 at 155,000 seeds/ft; harvested 10/22/2020; 12 ft. by 4-row plot; pesticides: Pre- May 3, 0.5 lb/a 2-4D LV ester + 4 oz/a dicamba + 1 lb/a glyphosate in water treated with AMS. Post plant- May 20, 5 oz/a Authority XL + 3.2 oz/a Zidua SC + .375 lb/a Tri Cor [75% Mietribuzin]

**Table 2. Riley, Riley County Dryland Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	<b>61.7</b>	<b>66.4</b>	--	64.0	--	106	108	--	9/27	1.0	43
ASGROW	AG41x8	RR2X	58.6	<b>64.4</b>	--	61.5	--	101	105	--	10/3	1.0	49
BIOMINERAL	BIOMINERAL-SO	C	53.2	--	--	--	--	91	--	--	9/22	1.3	43
BIOMINERAL	BIOMINERAL-SY	C	55.7	--	--	--	--	96	--	--	9/21	1.3	43
CHECK	20MG3.1	RR	<b>63.8</b>	--	--	--	--	110	--	--	9/29	1.0	47
CHECK	20MG3.9	RR	57.9	55.5	--	56.7	--	99	91	--	10/3	1.0	45
CHECK	20MG4.8	RR	31.2	--	--	--	--	54	--	--	10/14	1.0	37
KANSAS AES	K16-1208	C	56.8	--	--	--	--	98	--	--	10/1	1.8	46
KANSAS AES	K16-1222	C	55.2	--	--	--	--	95	--	--	10/1	1.0	45
KANSAS AES	K16-1229	C	59.1	--	--	--	--	102	--	--	9/29	1.5	45
KANSAS AES	K16-1729	C	55.3	--	--	--	--	95	--	--	9/29	1.0	43
KANSAS AES	KS4117NS	C, STS	<b>62.0</b>	62.0	35.4	62.0	53.1	107	101	104	9/29	1.0	35
KANSAS AES	KS4120NSGT	RR1, STS	<b>62.3</b>	57.4	--	59.8	--	107	94	--	10/1	1.0	38
KANSAS AES	KS4520NS	C, STS	55.7	58.4	--	57.1	--	96	95	--	10/1	1.0	38
MIDLAND	3930NXS	RR2X	<b>66.2</b>	<b>67.4</b>	--	66.8	--	114	110	--	10/2	1.0	45
MIDLAND	3999E3	E3	<b>64.8</b>	--	--	--	--	111	--	--	10/1	1.0	43
MIDLAND	4140NXS	RR2X	60.0	--	--	--	--	103	--	--	10/4	1.0	50
MIDLAND	4251X	E3, STS	<b>63.3</b>	--	--	--	--	109	--	--	10/5	1.0	48
MIDLAND	4260E3S	RR2X, STS	<b>63.5</b>	--	--	--	--	109	--	--	10/2	1.0	42
	AVERAGES		58.2	61.3	34.1								
	CV (%)		6.9	5.7	8.2								
	LSD (0.10)		4.6	3.9	3.3								

Values in bold are in the upper LSD group.

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

Cold temperatures in May resulted in slow emergence. It was very dry in June, and very wet in July. Fairly good grain fill conditions in August.

April May June July Aug. Sept. Total

Rainfall: 2.9 4.2 4.4 8.6 1.0 2.7 24.2

Planted 5/18/2020 at 100,000 seeds/ft; harvested 10/12/2020; 10 ft. by 4-row plot; pesticides: Pre -May 20 applied Authority Maxx 5 oz/a + Cinch 1.5 pt/a + Liberty 32 oz/a + AMS; Post- June 22 applied Warrant Ultra 3 pt/a + Pursuit 4 oz/a + Zidua 2.7 oz/a + First Rate 0.3 oz/a

**Table 3. Kiro, Shawnee County Dryland Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	68.7	82.9	--	75.8	--	96	100	--	9/23	2.5	43
ASGROW	AG41x8	RR2X	69.0	83.7	--	76.3	--	97	101	--	10/2	2.8	49
ASGROW	AG48x9	RR2X	72.1	--	--	--	--	101	--	--	10/9	2.5	48
BIOMINERAL	BIOMINERAL-SO	C	72.6	--	--	--	--	102	--	--	9/21	2.8	38
BIOMINERAL	BIOMINERAL-SY	C	68.0	--	--	--	--	95	--	--	9/23	2.8	42
CHECK	20MG3.1	RR	71.8	73.9	--	72.9	--	101	89	--	9/27	2.0	49
CHECK	20MG3.9	RR	68.1	66.1	--	67.1	--	95	80	--	10/1	1.5	45
CHECK	20MG4.8	RR	68.0	--	--	--	--	95	--	--	10/3	5.0	36
DONMARIO	DM 44X11	RR2X	71.0	--	--	--	--	99	--	--	10/7	3.8	49
DONMARIO	DM 49X13	RR2X	<b>75.5</b>	--	--	--	--	106	--	--	10/7	3.0	47
KANSAS AES	KS4117NS	C, STS	<b>77.6</b>	86.7	58.2	82.1	74.2	109	104	103	9/27	2.3	39
KANSAS AES	KS4120NSGT	RR1, STS	<b>74.0</b>	87.6	--	80.8	--	104	106	--	9/27	2.5	39
KANSAS AES	KS4520NS	C, STS	72.4	<b>93.2</b>	--	82.8	--	101	112	--	9/29	2.8	40
MIDLAND	3930NXS	RR2X	71.1	<b>89.5</b>	--	80.3	--	100	108	--	9/27	1.3	46
MIDLAND	3999E3	E3	72.5	--	--	--	--	102	--	--	9/29	2.3	42
MIDLAND	4140NXS	RR2X	67.5	<b>91.8</b>	--	79.6	--	94	111	--	10/3	3.0	49
MIDLAND	4251X	E3, STS	<b>75.3</b>	--	--	--	--	105	--	--	10/3	2.5	46
MIDLAND	4260E3S	RR2X, STS	<b>79.1</b>	--	--	--	--	111	--	--	10/3	2.5	42
MISSOURI	S15-10879C	C	55.8	--	--	--	--	78	--	--	9/29	4.5	43
VIRTUE SEEDS	V 3720S	C	70.5	--	--	--	--	99	--	--	9/24	1.3	40
VIRTUE SEEDS	V 4520S	C	68.6	--	--	--	--	96	--	--	10/9	1.8	48
VIRTUE SEEDS	V 4921S	C	<b>76.6</b>	--	--	--	--	107	--	--	10/7	3.0	42
	AVERAGES		71.4	83.0	57.7								
	CV (%)		6.0	6.0	11.3								
	LSD (0.10)		6.0	5.8	7.7								

Values in bold are in the upper LSD group.

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

Cold temperatures in May resulted in slow emergence. It was very dry in June, and very wet in July. Fairly good grain fill conditions in August. Irrigated 4 times in August, 2.1 inches.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	3.5	4.4	3.0	10.2	1.0	1.9	24.6
Irrigation:					2.2		2.15

Planted 5/18/2020 at 140,000 seeds/ft; harvested 10/12/2020; 10 ft. by 4-row plot; pesticides: Pre -May 19 applied Authority Maxx 5 oz/a + Cinch 1.5 pt/a + Liberty 32 oz/a + AMS; Post- June 22 applied Warrant Ultra 3 pt/a + Pursuit 4 oz/a + Zidua 2.7 oz/a + First Rate 0.3 oz/a

**Table 4. Topeka, Shawnee County Irrigated Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	<b>68.8</b>	64.8	--	66.8	--	117	104	--	9/27	1.5	38
ASGROW	AG41x8	RR2X	55.4	59.1	--	57.2	--	94	95	--	9/29	1.8	44
ASGROW	AG48x9	RR2X	<b>78.5</b>	--	--	--	--	134	--	--	10/6	2.3	41
CHECK	20MG3.1	RR	54.4	63.4	--	58.9	--	93	102	--	9/27	2.0	42
CHECK	20MG3.9	RR	64.9	59.4	--	62.1	--	111	95	--	10/1	1.3	38
CHECK	20MG4.8	RR	56.5	--	--	--	--	96	--	--	10/7	1.8	35
DONMARIO	DM 44X11	RR2X	54.1	--	--	--	--	92	--	--	10/3	2.0	47
DONMARIO	DM 49X13	RR2X	50.7	--	--	--	--	86	--	--	10/5	2.5	42
KANSAS AES	KS4117NS	C, STS	58.0	65.1	--	61.5	--	99	104	--	9/26	1.3	33
KANSAS AES	KS4120NSGT	RR1, STS	60.1	62.2	--	61.1	--	102	100	--	9/26	1.5	32
KANSAS AES	KS4520NS	C, STS	62.8	66.9	--	64.8	--	107	107	--	9/28	2.3	36
MIDLAND	3711XS	RR2X, STS	66.9	--	--	--	--	114	--	--	9/27	1.3	46
MIDLAND	3930NXS	RR2X	64.8	<b>74.6</b>	--	69.7	--	111	119	--	9/29	1.3	41
MIDLAND	3999E3	E3	<b>75.9</b>	--	--	--	--	129	--	--	9/28	1.3	35
MIDLAND	4140NXS	RR2X	<b>71.7</b>	62.3	--	67.0	--	122	100	--	10/3	2.3	41
MIDLAND	4251X	E3, STS	<b>70.7</b>	--	--	--	--	120	--	--	10/4	1.5	42
MIDLAND	4260E3S	RR2X, STS	63.6	--	--	--	--	108	--	--	10/2	1.8	37
STRATTON	AGS GS42X19S	Xtend/STS	45.1	--	--	--	--	77	--	--	9/26	2.0	39
STRATTON	AGS GS49X21	Xtend	<b>68.9</b>	--	--	--	--	117	--	--	10/7	2.3	49
STRATTON	AGS GS52X19S	Xtend/STS	34.4	--	--	--	--	59	--	--	10/2	1.8	39
STRATTON	Go Soy 38E21S	Enlist/STS	57.9	--	--	--	--	99	--	--	9/29	1.3	31
STRATTON	Go Soy 43C17S	STS	55.5	--	--	--	--	95	--	--	9/27	1.0	34
STRATTON	Go Soy 463E20S	Enlist/STS	51.1	--	--	--	--	87	--	--	10/2	2.0	43
STRATTON	Go Soy 48C17S	STS	44.6	--	--	--	--	76	--	--	10/6	2.3	40
STRATTON	Go Soy 491E19S	Enlist/STS	44.5	--	--	--	--	76	--	--	10/9	1.8	49
STRATTON	Go Soy 49G16	RR	<b>74.2</b>	--	--	--	--	126	--	--	10/5	4.0	44
STRATTON	Go Soy 51E21	Enlist/STS	58.8	--	--	--	--	100	--	--	10/5	2.8	42
STRATTON	Go Soy 5214GTS	RR1	67.5	--	--	--	--	115	--	--	10/11	4.8	51
STRATTON	Go Soy GT Ireane	RR1	45.6	--	--	--	--	78	--	--	10/7	1.0	35
VIRTUE SEEDS	V 3720S	C	57.4	--	--	--	--	98	--	--	9/24	1.8	35
VIRTUE SEEDS	V 4520S	C	61.5	--	--	--	--	105	--	--	10/1	1.3	39
VIRTUE SEEDS	V 4921S	C	47.9	--	--	--	--	82	--	--	10/1	1.8	40
	AVERAGES		58.7	62.5	56.3								
	CV (%)		9.5	8.2	8.7								
	LSD (0.10)		7.8	6.0	5.7								

Values in bold are in the upper LSD group.



**East Central Kansas Experiment Field, Ottawa, Franklin County; Eric Adee, Dylan Walta, agronomists; Jim Kimball, technician**

Planting conditions were good, with saturation after planting creating "damping off" resulting in some entries having stand reduction. The trial had adequate moisture up to August and then droughty conditions persisted through maturity with some intermittent rain in late August through September that allowed for pod-fill. Harvest conditions were excellent.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	1.8	4.2	2.9	4.2	1.2	1.5	17.1

Planted 5/20/2020 at 140,000 seeds/ft; harvested 10/5/2020; 26 ft. by 4-row plot; pesticides: Pre- 7 oz/a Authority Maxx, 1.5 pt/a Dual II Mag (May 21st); Post- 12.5 oz/acCobra, 1 pt/a Dual II Magnum, 10 oz/a Select, 1 pt/a COC (July 6th)

**Table 5. Ottawa, Franklin County Dryland Soybean Performance Test, Maturity Groups III-IV, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	<b>54.5</b>	<b>76.0</b>	--	65.3	--	113	104	--	9/16	1.0	32
ASGROW	AG48x9	RR2X	45.0	71.9	--	58.5	--	94	98	--	10/1	1.0	40
CHECK	20MG3.1	RR	<b>57.3</b>	72.5	--	64.9	--	119	99	--	9/16	1.5	39
CHECK	20MG3.9	RR	51.3	72.4	--	61.8	--	107	99	--	9/24	1.0	34
DONMARIO	DM 44X11	RR2X	51.0	--	--	--	--	106	--	--	9/26	1.5	40
KANSAS AES	KS4117NS	C, STS	47.3	<b>74.9</b>	<b>52.2</b>	61.1	58.1	99	103	116	9/19	1.0	30
KANSAS AES	KS4120NSGT	RR1, STS	50.7	<b>75.1</b>	--	62.9	--	105	103	--	9/20	1.0	31
KANSAS AES	KS4520NS	C, STS	44.4	71.3	--	57.9	--	92	98	--	9/22	1.0	35
MISSOURI	S15-10879C	C	43.0	--	--	--	--	89	--	--	9/23	1.0	36
STRATTON	AGS GS42X19S	Xtend/STS	43.8	--	--	--	--	91	--	--	9/26	1.0	34
STRATTON	Go Soy 38E21S	Enlist/STS	<b>56.9</b>	--	--	--	--	118	--	--	9/16	1.0	30
STRATTON	Go Soy 43C17S	STS	47.3	--	<b>49.4</b>	--	--	98	--	110	9/21	1.0	32
STRATTON	Go Soy 463E20S	Enlist/STS	41.4	--	--	--	--	86	--	--	9/26	1.3	41
VIRTUE SEEDS	V 3720S	C	46.0	--	--	--	--	96	--	--	9/14	1.5	31
VIRTUE SEEDS	V 4520S	C	52.0	--	--	--	--	108	--	--	9/26	1.3	37
	AVERAGES		48.0	73.0	45.0								
	CV (%)		6.8	5.5	11.9								
	LSD (0.10)		4.6	4.6	6.2								

Values in bold are in the upper LSD group.

**East Central Kansas Experiment Field, Ottawa, Franklin County; Eric Adee, Dylan Walta agronomists; Jim Kimball, technician**

Planting conditions were good, with saturation after planting creating "damping off" resulting in some entries having stand reduction. The trial had adequate moisture up to August and then droughty conditions persisted through maturity with some intermittent rain in late August through September that allowed for pod-fill. Harvest conditions were excellent.

Rainfall:      April May June July Aug. Sept. Total  
                   1.8    4.2    2.9    4.2    1.2    1.5    17.1

Planted 5/20/2020 at 140,000 seeds/ft; harvested 10/12/2020; 26 ft. by 4-row plot; pesticides: Pre- 7 oz/a Authority Maxx, 1.5 pt/a Dual II Magnum (May 21st); Post- 12.5 oz/a Cobra, 1 pt/a Dual II Magnum, 10 oz/a Select, 1 pt/a COC (July 6th)

**Table 6. Ottawa, Franklin County Dryland Soybean Performance Test, Maturity Groups IV-V, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
CHECK	20MG4.8	RR	54.6	<b>72.0</b>	--	63.3	--	112	104	--	10/8	1.0	34
DONMARIO	DM 49X13	RR2X	48.7	--	--	--	--	100	--	--	9/29	1.5	39
KANSAS AES	K15-1809	C, STS	<b>58.8</b>	<b>75.4</b>	61.2	67.1	65.1	121	109	110	10/8	1.0	34
KANSAS AES	K15-1874	C, STS	50.1	67.0	54.3	58.6	57.1	103	97	98	9/29	1.0	36
KANSAS AES	KS4919N	C	46.3	64.6	57.9	55.4	56.3	95	94	104	9/29	2.0	39
KANSAS AES	KS5004N	C	43.7	60.8	51.0	52.2	51.8	90	88	92	9/29	2.0	42
KANSAS AES	KS5120NS	C, STS	53.1	70.0	<b>67.4</b>	61.5	63.5	109	101	121	10/8	1.0	36
STRATTON	AGS GS49X21	Xtend	49.4	--	--	--	--	102	--	--	10/5	2.0	43
STRATTON	AGS GS52X19S	Xtend/STS	47.2	--	--	--	--	97	--	--	10/10	1.0	42
STRATTON	Go Soy 48C17S	STS	44.4	--	--	--	--	91	--	--	9/30	1.5	41
STRATTON	Go Soy 491E19S	Enlist/STS	47.7	--	--	--	--	98	--	--	10/3	1.0	48
STRATTON	Go Soy 49G16	RR	47.3	--	53.2	--	--	97	--	96	9/28	2.3	43
STRATTON	Go Soy 51E21	Enlist/STS	50.3	--	--	--	--	103	--	--	9/29	2.0	39
STRATTON	Go Soy 5214GTS	RR1	46.3	--	--	--	--	95	--	--	10/3	2.3	50
STRATTON	Go Soy GT Ireane	RR1	48.0	--	--	--	--	99	--	--	10/5	1.0	38
VIRTUE SEEDS	V 4921S	C	45.0	--	--	--	--	92	--	--	9/29	1.3	38
	AVERAGES		48.6	69.1	55.6								
	CV (%)		7.0	4.4	9.3								
	LSD (0.10)		4.1	3.6	6.1								

Values in bold are in the upper LSD group.

**Southeast Agricultural Research Center, Parsons, Labette County: Gretchen Sassenrath, agronomist; Lonnie Mengarelli, technician**

Warm and great moisture at planting. Full season had an established root system and was able to come through the dry summer very well. High humidity in the fall slowed down the drying process but harvest went very well.

April May June July Aug. Sept. Total  
 Rainfall: 3.7 13.7 1.0 4.9 1.5 4.1 33.2

Planted 6/9/2020 at 100,000 seeds/ft; harvested 11/5/2020; 14 ft. by 4-row plot; pesticides: 1.5 qt/a glyphosate, 2 pt/a Dual II Magnum, .5 lb/a metrobuten, 6 oz/a Authority XL

**Table 7. Parsons, Labette County Dryland Soybean Performance Test, Maturity Groups III-IV, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R16-259	C	51.4	--	--	--	--	94	--	--	9/28	1.0	36
ASGROW	AG35x9	RR2X	49.6	<b>55.5</b>	--	52.5	--	91	108	--	9/22	1.0	31
CHECK	20MG3.1	RR	48.9	48.4	--	48.6	--	90	94	--	9/22	1.0	35
CHECK	20MG3.9	RR	53.6	48.1	--	50.9	--	98	93	--	10/1	1.0	35
DONMARIO	DM 44X11	RR2X	55.1	--	--	--	--	101	--	--	9/27	1.0	37
DYNA-GRO	DG S43XS70		<b>62.8</b>	--	--	--	--	115	--	--	10/3	1.0	36
DYNA-GRO	DG S44EN40		<b>61.9</b>	--	--	--	--	114	--	--	10/1	1.0	30
DYNA-GRO	DG S45ES10		56.9	--	--	--	--	104	--	--	9/30	1.0	34
DYNA-GRO	DG S46ES91		50.5	--	--	--	--	93	--	--	10/3	1.0	37
DYNA-GRO	DG S46XS60		<b>62.9</b>	--	--	--	--	115	--	--	10/1	1.0	33
KANSAS AES	KS4117NS	C, STS	52.4	49.9	--	51.2	--	96	97	--	9/24	1.0	25
KANSAS AES	KS4120NSGT	RR1, STS	50.8	51.2	--	51.0	--	93	99	--	9/24	1.0	25
KANSAS AES	KS4520NS	C, STS	51.2	--	--	--	--	94	--	--	9/21	1.0	29
MIDLAND	4488NXS	RR2X/STS	56.5	--	<b>67.5</b>	--	--	104	--	133	10/8	1.0	37
MIDLAND	4677NXS	RR2X/STS	<b>60.6</b>	--	--	53.3	55.1	111	89	115	10/7	1.0	42
MISSOURI	S15-10879C	C	44.7	--	--	--	--	82	--	--	9/20	1.0	32
STRATTON	AGS GS42X19S	Xtend/STS	57.9	--	--	--	--	106	--	--	9/17	1.0	34
STRATTON	Go Soy 38E21S	Enlist/STS	54.5	--	--	--	--	100	--	--	9/23	1.0	27
STRATTON	Go Soy 43C17S	STS	56.2	50.7	47.3	53.4	51.4	103	98	93	9/22	1.0	26
STRATTON	Go Soy 463E20S	Enlist/STS	51.5	--	--	--	--	95	--	--	10/5	1.0	38
VIRTUE SEEDS	V 3720S	C	55.2	--	--	--	--	101	--	--	9/20	1.0	30
VIRTUE SEEDS	V 4520S	C	<b>59.0</b>	--	--	--	--	108	--	--	9/27	1.0	32
	AVERAGES		54.5	51.6	50.9								
	CV (%)		5.9	6.7	9.6								
	LSD (0.10)		4.4	4.1	5.8								

Values in bold are in the upper LSD group.

**Southeast Agricultural Research Center, Parsons, Labette County: Gretchen Sassenrath, agronomist; Lonnie Mengarelli, technician**

Warm and great moisture at planting. Full season had an established root system and was able to come through the dry summer very well. High humidity in the fall slowed down the drying process but harvest went very well.

April May June July Aug. Sept. Total  
 Rainfall: 3.7 13.7 1.0 4.9 1.5 4.1 33.2

Planted 6/9/2020 at 100,000 seeds/ft; harvested 11/5/2020; 14 ft. by 4-row plot; pesticides: 1.5 qt/a glyphosate, 2 pt/a Dual II Magnum, .5 lb/a metrobusen, 6 oz/a Authority XL

**Table 8. Parsons, Labette County Dryland Soybean Performance Test, Maturity Groups IV-V, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R15-2422	C	58.3	--	--	--	--	99	--	--	10/6	1.0	38
ASGROW	AG48x9	RR2X	59.7	53.1	--	56.4	--	102	103	--	10/6	1.0	35
CHECK	20MG4.8	RR	59.8	51.9	--	55.9	--	102	101	--	10/10	1.0	30
DONMARIO	DM 49X13	RR2X	<b>64.2</b>	--	--	--	--	109	--	--	10/6	1.0	35
DYNA-GRO	DG S48XT90		<b>63.5</b>	--	--	--	--	108	--	--	10/6	1.0	35
DYNA-GRO	DG S49EN79		<b>62.6</b>	--	--	--	--	107	--	--	10/8	1.0	33
KANSAS AES	K15-1809	C, STS	<b>62.2</b>	53.3	<b>55.0</b>	57.7	56.8	106	104	102	10/12	1.0	28
KANSAS AES	K15-1874	C, STS	59.0	51.4	50.6	55.2	53.7	100	100	94	10/7	1.0	31
KANSAS AES	KS4919N	C	51.4	49.9	<b>58.1</b>	50.7	53.1	88	97	108	10/7	1.0	36
KANSAS AES	KS5004N	C	60.6	45.9	53.2	53.2	53.2	103	89	98	10/6	1.0	34
KANSAS AES	KS5120NS	C, STS	59.1	52.5	<b>61.0</b>	55.8	57.5	101	102	113	10/8	1.0	33
MIDLAND	4850X	RR2X, STS	<b>61.4</b>	--	--	--	--	104	--	--	10/6	1.0	35
MIDLAND	4880E3S	RR2X	59.5	--	--	--	--	101	--	--	10/7	1.0	43
MIDLAND	4991NXS	RR2X, STS	60.3	--	--	--	--	103	--	--	10/7	1.0	39
MISSOURI	S16-11644C	C	58.3	--	--	--	--	99	--	--	10/7	1.0	43
MISSOURI	S16-11651C	C	56.6	--	--	--	--	96	--	--	10/8	1.0	40
MISSOURI	S16-3747RY	R2Y	53.2	--	--	--	--	91	--	--	10/8	1.0	39
MISSOURI	S16-7922C	C	56.8	--	--	--	--	97	--	--	10/12	1.0	45
STRATTON	AGS GS49X21	Xtend	<b>62.4</b>	--	--	--	--	106	--	--	10/8	1.0	40
STRATTON	AGS GS52X19S	Xtend/STS	58.8	--	--	--	--	100	--	--	10/13	1.0	39
STRATTON	Go Soy 471E19S	Enlist, STS	56.2	50.2	--	53.2	--	96	98	--	9/28	1.0	29
STRATTON	Go Soy 48C17S	STS	53.2	--	--	--	--	91	--	--	10/6	1.0	37
STRATTON	Go Soy 491E19S	Enlist/STS	<b>64.6</b>	--	--	--	--	110	--	--	10/6	1.0	43
STRATTON	Go Soy 49G16	RR	53.7	--	59.6	--	56.7	91	--	110	10/5	1.0	41
STRATTON	Go Soy 51E21	Enlist/STS	59.1	--	--	--	--	101	--	--	10/8	1.0	35
STRATTON	Go Soy 5214GTS	RR1	52.4	--	--	--	--	89	--	--	10/9	1.0	47
STRATTON	Go Soy GT Ireane	RR1	60.5	--	--	--	--	103	--	--	10/12	1.0	38
VIRTUE SEEDS	V 4921S	C	57.6	--	--	--	--	98	--	--	10/6	1.0	32
	AVERAGES		58.8	51.3	54.0								
	CV (%)		4.9	6.6	10.7								
	LSD (0.10)		3.4	4.0	6.8								

Values in bold are in the upper LSD group.

**Southeast Agricultural Research Center, Parsons, Labette County: Gretchen Sassenrath, agronomist; Lonnie Mengarelli, technician**

Test was practically dusted in. Moisture low, and it took a rainfall event to bring up the whole field. Not a lot of moisture during the first 3 months of growth. Abundant weed pressure due to lack of canopy coverage, and chemical activation. Harvest went very well.

April May June July Aug. Sept. Total  
 Rainfall: 3.7 13.7 1.0 4.9 1.5 4.1 33.2

Planted 6/23/2020 at 100,000 seeds/ft; harvested 11/6/2020; 10 ft. by 4-row plot; pesticides: 1.5 qt/a glyphosate, 2 pt/a Dual II Magnum, .5 lb/a metrobuten, 6 oz/a Authority XL

**Table 9. Parsons, Labette County Double-Cropped Soybean Performance Test, Maturity Groups III-IV, 2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R16-259	C	28.0	--	--	--	--	88	--	--	10/7	1.0	22
ASGROW	AG35x9	RR2X	25.8	--	--	--	--	81	--	--	10/2	1.0	21
CHECK	20MG3.1	RR	28.8	--	--	--	--	90	--	--	10/1	1.0	21
CHECK	20MG3.9	RR	34.6	--	--	--	--	108	--	--	10/7	1.0	21
DONMARIO	DM 44X11	RR2X	30.1	--	--	--	--	94	--	--	10/6	1.0	25
DYNA-GRO	DG S43XS70		<b>38.6</b>	--	--	--	--	121	--	--	10/8	1.0	27
DYNA-GRO	DG S44EN40		35.3	--	--	--	--	110	--	--	10/6	1.0	20
DYNA-GRO	DG S45ES10		30.4	--	--	--	--	95	--	--	10/9	1.0	21
DYNA-GRO	DG S46ES91		<b>39.3</b>	--	--	--	--	123	--	--	10/8	1.0	28
DYNA-GRO	DG S46XS60		<b>41.1</b>	--	--	--	--	128	--	--	10/11	1.0	24
KANSAS AES	KS4117NS	C, STS	29.1	--	--	--	--	91	--	--	10/4	1.0	19
KANSAS AES	KS4120NSGT	RR1, STS	33.0	--	--	--	--	103	--	--	10/3	1.0	17
KANSAS AES	KS4520NS	C, STS	28.2	--	--	--	--	88	--	--	10/4	1.0	21
MIDLAND	4488NXS	RR2X/STS	32.7	--	--	--	--	102	--	--	10/6	1.0	29
MIDLAND	4677NXS	RR2X/STS	29.5	--	--	--	--	92	--	--	10/11	1.0	25
MISSOURI	S15-10879C	C	30.5	--	--	--	--	95	--	--	10/8	1.0	23
STRATTON	AGS GS42X19S	Xtend/STS	<b>36.3</b>	--	--	--	--	114	--	--	10/4	1.0	22
STRATTON	Go Soy 38E21S	Enlist/STS	33.4	--	--	--	--	104	--	--	10/5	1.0	20
STRATTON	Go Soy 43C17S	STS	25.6	--	--	--	--	80	--	--	10/5	1.0	21
STRATTON	Go Soy 463E20S	Enlist/STS	<b>35.8</b>	--	--	--	--	112	--	--	10/13	1.0	26
VIRTUE SEEDS	V 3720S	C	29.1	--	--	--	--	91	--	--	10/3	1.0	21
VIRTUE SEEDS	V 4520S	C	32.9	--	--	--	--	103	--	--	10/6	1.0	23
	AVERAGES		32.0	--	--								
	CV (%)		12.5	--	--								
	LSD (0.10)		5.6	--	--								

Values in bold are in the upper LSD group.

**Southeast Agricultural Research Center, Parsons, Labette County: Gretchen Sassenrath, agronomist; Lonnie Mengarelli, technician**

Test was practically dusted in. Moisture was low, and it took a rainfall event to get plants to emerge. Not a lot of moisture during the first 3 months of growth. Abundant weed pressure due to lack of canopy coverage, and chemical activation. Harvest went very well.

Rainfall:      April May June July Aug. Sept. Total  
 3.7 13.7 1.0 4.9 1.5 4.1 33.2

Planted 6/23/2020 at 100,000 seeds/ft; harvested 11/6/2020; 10 ft. by 4-row plot; pesticides: 1.5 qt/a glyphosate, 2 pt/a Dual II Magnum, .5 lb/a metribuzen, 6 oz/a Authority XL

**Table 10. Parsons, Labette County Double-Cropped Soybean Performance Test, Maturity Groups IV-V, 2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R15-2422	C	<b>40.3</b>	--	--	--	--	100	--	--	10/10	1.0	34
CHECK	20MG4.8	RR	37.2	--	--	--	--	92	--	--	10/16	1.0	23
DONMARIO	DM 49X13	RR2X	<b>43.7</b>	--	--	--	--	108	--	--	10/10	1.0	30
DYNA-GRO	DG S48XT90		<b>43.5</b>	--	--	--	--	107	--	--	10/10	1.0	27
DYNA-GRO	DG S49EN79		<b>41.8</b>	--	--	--	--	103	--	--	10/13	1.0	26
KANSAS AES	K15-1809	C, STS	<b>43.8</b>	--	--	--	--	108	--	--	10/15	1.0	24
KANSAS AES	K15-1874	C, STS	<b>40.6</b>	--	--	--	--	100	--	--	10/11	1.0	27
KANSAS AES	KS4919N	C	<b>41.1</b>	--	--	--	--	101	--	--	10/9	1.0	31
KANSAS AES	KS5004N	C	32.9	--	--	--	--	81	--	--	10/13	1.0	31
KANSAS AES	KS5120NS	C, STS	<b>42.2</b>	--	--	--	--	104	--	--	10/15	1.0	28
MIDLAND	4850X	RR2X, STS	<b>43.4</b>	--	--	--	--	107	--	--	10/11	1.0	28
MIDLAND	4880E3S	RR2X	<b>42.1</b>	--	--	--	--	104	--	--	10/15	1.0	36
MIDLAND	4991NXS	RR2X, STS	<b>44.3</b>	--	--	--	--	110	--	--	10/11	1.0	33
MISSOURI	S16-11644C	C	<b>40.2</b>	--	--	--	--	99	--	--	10/13	1.0	30
MISSOURI	S16-11651C	C	<b>40.6</b>	--	--	--	--	100	--	--	10/13	1.0	32
MISSOURI	S16-3747RY	R2Y	<b>43.1</b>	--	--	--	--	106	--	--	10/14	1.0	34
MISSOURI	S16-7922C	C	<b>41.6</b>	--	--	--	--	103	--	--	10/10	1.0	38
STRATTON	AGS GS49X21	Xtend	33.8	--	--	--	--	83	--	--	10/15	1.0	33
STRATTON	AGS GS52X19S	Xtend/STS	<b>42.7</b>	--	--	--	--	105	--	--	10/16	1.0	32
STRATTON	Go Soy 48C17S	STS	39.2	--	--	--	--	97	--	--	10/14	1.0	30
STRATTON	Go Soy 491E19S	Enlist/STS	<b>41.0</b>	--	--	--	--	101	--	--	10/12	1.0	33
STRATTON	Go Soy 49G16	RR	<b>43.6</b>	--	--	--	--	108	--	--	10/12	1.0	32
STRATTON	Go Soy 51E21	Enlist/STS	<b>42.6</b>	--	--	--	--	105	--	--	10/13	1.0	28
STRATTON	Go Soy 5214GTS	RR1	37.2	--	--	--	--	92	--	--	10/12	1.0	43
STRATTON	Go Soy GT Ireane	RR1	38.9	--	--	--	--	96	--	--	10/15	1.0	27
VIRTUE SEEDS	V 4921S	C	<b>43.3</b>	--	--	--	--	107	--	--	10/10	1.0	27
	AVERAGES		40.5	--	--								
	CV (%)		8.6	--	--								
	LSD (0.10)		4.8	--	--								

Values in bold are in the upper LSD group.

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

It was a wet spring. Planting conditons were not the greatest; the field was cloddy, which made for uneven planting depth. Throughout the grain fill period there was good soil moisture.

April May June July Aug. Sept. Total  
 Rainfall: 5.4 9.2 0.3 1.6 2.5 3.1 26.5

Planted 7/1/2020 at 100,000 seeds/ft; harvested 11/7/2020; 12 ft. by 4-row plot; pesticides: no pre-emerge pesticide used

**Table 11. McCune, Crawford County Dryland Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R15-2422	C	38.7	--	--	--	--	94	--	--	10/21	1.0	30
ARKANSAS	R16-259	C	38.7	--	--	--	--	94	--	--	10/18	1.0	28
ASGROW	AG35x9	RR2X	36.7	--	--	--	--	89	--	--	10/10	1.0	26
CHECK	20MG3.1	RR	40.1	--	--	--	--	97	--	--	10/10	1.0	25
CHECK	20MG3.9	RR	41.7	--	--	--	--	101	--	--	10/17	1.0	26
CHECK	20MG4.8	RR	<b>43.8</b>	--	--	--	--	106	--	--	10/28	1.0	29
DONMARIO	DM 44X11	RR2X	42.6	--	--	--	--	103	--	--	10/20	1.0	29
DONMARIO	DM 49X13	RR2X	<b>44.7</b>	--	--	--	--	109	--	--	10/23	1.0	27
KANSAS AES	K15-1809	C, STS	<b>46.1</b>	--	<b>65.2</b>	--	55.7	112	--	105	10/31	1.0	28
KANSAS AES	K15-1874	C, STS	<b>43.9</b>	--	62.6	--	53.5	107	--	100	10/24	1.0	29
KANSAS AES	KS4117NS	C, STS	34.0	--	61.3	--	47.7	82	--	98	10/14	1.0	19
KANSAS AES	KS4120NSGT	RR1, STS	35.8	--	--	--	--	87	--	--	10/14	1.0	20
KANSAS AES	KS4520NS	C, STS	36.4	--	--	--	--	88	--	--	10/15	1.0	23
KANSAS AES	KS4919N	C	<b>46.1</b>	--	63.8	--	55.0	112	--	102	10/24	1.0	33
KANSAS AES	KS5004N	C	40.4	--	54.5	--	47.5	98	--	87	10/21	1.8	33
KANSAS AES	KS5120NS	C, STS	<b>44.6</b>	--	63.3	--	54.1	108	--	102	10/28	1.0	28
MISSOURI	S15-10879C	C	40.1	--	--	--	--	97	--	--	10/14	1.0	22
MISSOURI	S16-11644C	C	<b>45.0</b>	--	--	--	--	109	--	--	10/25	1.8	28
MISSOURI	S16-11651C	C	38.1	--	--	--	--	93	--	--	11/2	2.0	35
MISSOURI	S16-3747RY	R2Y	40.7	--	--	--	--	99	--	--	10/29	1.8	36
MISSOURI	S16-7922C	C	40.6	--	--	--	--	99	--	--	11/3	3.3	34
STRATTON	AGS GS42X19S	Xtend/STS	<b>43.9</b>	--	--	--	--	107	--	--	10/15	1.0	25
STRATTON	AGS GS49X21	Xtend	<b>45.1</b>	--	--	--	--	109	--	--	10/28	1.0	34
STRATTON	AGS GS52X19S	Xtend/STS	37.8	--	--	--	--	92	--	--	11/2	1.0	31
STRATTON	Go Soy 38E21S	Enlist/STS	<b>43.6</b>	--	--	--	--	106	--	--	10/15	1.0	22
STRATTON	Go Soy 43C17S	STS	39.8	--	61.3	--	50.6	97	--	98	10/14	1.0	21
STRATTON	Go Soy 463E20S	Enlist/STS	42.3	--	--	--	--	103	--	--	10/21	1.0	26
STRATTON	Go Soy 48C17S	STS	38.5	--	57.9	--	48.2	93	--	93	10/25	1.0	30
STRATTON	Go Soy 491E19S	Enlist/STS	<b>43.4</b>	--	--	--	--	105	--	--	10/24	1.0	36
STRATTON	Go Soy 49G16	RR	42.8	--	62.4	--	52.6	104	--	100	10/25	2.5	33
STRATTON	Go Soy 51E21	Enlist/STS	<b>44.7</b>	--	--	--	--	109	--	--	10/25	1.0	27
STRATTON	Go Soy 5214GTS	RR1	40.6	--	--	--	--	99	--	--	10/31	3.0	37
STRATTON	Go Soy GT Ireane	RR1	39.4	--	--	--	--	96	--	--	11/2	1.0	32
VIRTUE SEEDS	V 3720S	C	38.8	--	--	--	--	94	--	--	10/14	1.0	24
VIRTUE SEEDS	V 4520S	C	<b>44.0</b>	--	--	--	--	107	--	--	10/17	1.0	26
VIRTUE SEEDS	V 4921S	C	<b>43.4</b>	--	--	--	--	105	--	--	10/21	1.0	26
	AVERAGES		41.2	--	62.3								
	CV (%)		6.2	--	5.5								
	LSD (0.10)		2.9	--	4.0								

Values in bold are in the upper LSD group.

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

It was a wet spring. June had dry planting conditions, while July was wet. The growing conditions were good and had fair moisture throughout the grain fill period. 1.5 tons of turkey litter applied in Fall of 2019.

April May June July Aug. Sept. Total  
 Rainfall: 5.4 9.2 0.3 1.6 2.5 3.1 26.5

Planted 6/18/2020 at 155,000 seeds/ft; harvested 11/7/2020; 24 ft. by 4-row plot; pesticides: Pre- June 18 applied Trivents 4 oz/a + gremoxon 1.5 pt/a + Expond 3.8 oz/a

**Table 12. Pittsburg, Cherokee County Dryland Soybean Performance Test, 2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ARKANSAS	R15-2422	C	42.0	--	--	--	--	83	--	--	10/10	3.0	40
ARKANSAS	R16-259	C	51.7	--	--	--	--	102	--	--	10/9	1.0	41
ASGROW	AG35x9	RR2X	54.5	--	--	--	--	107	--	--	10/1	1.5	39
ASGROW	AG48x9	RR2X	56.0	--	--	--	--	110	--	--	10/11	1.0	42
CHECK	20MG3.1	RR	52.0	--	--	--	--	102	--	--	9/30	1.5	39
CHECK	20MG3.9	RR	53.4	--	--	--	--	105	--	--	10/7	1.0	36
CHECK	20MG4.8	RR	48.2	--	--	--	--	95	--	--	10/15	2.8	33
DONMARIO	DM 44X11	RR2X	48.0	--	--	--	--	94	--	--	10/11	2.5	36
DONMARIO	DM 49X13	RR2X	51.6	--	--	--	--	101	--	--	10/9	1.5	34
KANSAS AES	K15-1809	C, STS	54.3	--	--	--	--	107	--	--	10/21	2.8	37
KANSAS AES	K15-1874	C, STS	54.7	--	--	--	--	107	--	--	10/14	2.5	39
KANSAS AES	KS4919N	C	57.6	--	--	--	--	113	--	--	10/14	2.8	40
KANSAS AES	KS5004N	C	48.3	--	--	--	--	95	--	--	10/12	3.3	46
KANSAS AES	KS5120NS	C, STS	<b>59.8</b>	--	--	--	--	117	--	--	10/21	2.8	43
MIDLAND	4488NXS	RR2X/STS	<b>62.5</b>	--	--	--	--	123	--	--	10/12	1.5	41
MIDLAND	4677NXS	RR2X/STS	55.9	--	--	--	--	110	--	--	10/16	1.3	49
MIDLAND	4850X	RR2X, STS	52.7	--	--	--	--	103	--	--	10/11	1.8	35
MIDLAND	4880E3S	RR2X	44.5	--	--	--	--	87	--	--	10/12	1.5	52
MIDLAND	4991NXS	RR2X, STS	<b>58.5</b>	--	--	--	--	115	--	--	10/14	1.8	44
STRATTON	AGS GS42X19S	Xtend/STS	50.2	--	--	--	--	99	--	--	10/3	1.8	37
STRATTON	AGS GS49X21	Xtend	52.8	--	--	--	--	104	--	--	10/18	1.8	45
STRATTON	AGS GS52X19S	Xtend/STS	37.9	--	--	--	--	74	--	--	10/18	1.0	35
STRATTON	Go Soy 38E21S	Enlist/STS	57.2	--	--	--	--	112	--	--	9/29	1.0	36
STRATTON	Go Soy 43C17S	STS	48.6	--	--	--	--	95	--	--	9/27	1.0	29
STRATTON	Go Soy 463E20S	Enlist/STS	49.7	--	--	--	--	98	--	--	10/9	1.5	37
STRATTON	Go Soy 48C17S	STS	38.6	--	--	--	--	76	--	--	10/14	2.8	47
STRATTON	Go Soy 491E19S	Enlist/STS	44.8	--	--	--	--	88	--	--	10/13	2.3	49
STRATTON	Go Soy 49G16	RR	55.2	--	--	--	--	108	--	--	10/14	3.5	45
STRATTON	Go Soy 51E21	Enlist/STS	53.2	--	--	--	--	104	--	--	10/14	2.3	42
STRATTON	Go Soy 5214GTS	RR1	49.8	--	--	--	--	98	--	--	10/18	3.0	51
STRATTON	Go Soy GT Ireane	RR1	46.1	--	--	--	--	90	--	--	10/19	1.8	42
VIRTUE SEEDS	V 4520S	C	53.5	--	--	--	--	105	--	--	10/6	1.3	39
VIRTUE SEEDS	V 4921S	C	47.8	--	--	--	--	94	--	--	10/7	1.0	34
	AVERAGES		50.9	--	--								
	CV (%)		6.9	--	--								
	LSD (0.10)		4.1	--	--								

Values in bold are in the upper LSD group.



**North Central Experiment Field, Scandia, Republic County; Scott Dooley, agronomist**

Some plots suffered Dicamba damage in mid-July. Due to staff reorganization, its hard to say when the damage occurred. Most plants recovered or were partially stunted. Plentiful rain through July. Dry conditions in August may have slightly reduced pod filling. Irrigation was utilized in order to sustain pod filling. Mild temperatures for most of the growing season. No significant disease or insect pressure.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	0.4	2.8	4.0	8.3	0.6	1.4	17.6
Irrigation:					2.0		2.0

Planted 5/19/2020 at 167,000 seeds/ft; harvested 10/14/2020; 26 ft. by 2-row plot; pesticides: 6/23/20: 2 qt/a Makaze, 16 oz/a Intensity One

**Table 13. Scandia, Republic County Irrigated Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	59.7	<b>66.1</b>	--	62.9	--	99	104	--	--	--	43
ASGROW	AG41x8	RR2X	60.4	59.9	--	60.1	--	100	94	--	--	--	46
ASGROW	AG48x9	RR2X	60.1	--	--	--	--	100	--	--	--	--	47
CHECK	20MG3.1	RR	<b>73.3</b>	61.7	--	67.5	--	122	97	--	--	1.0	50
CHECK	20MG3.9	RR	57.7	62.4	--	60.1	--	96	98	--	--	1.0	45
KANSAS AES	KS4117NS	C, STS	<b>66.0</b>	<b>64.0</b>	<b>51.3</b>	65.0	60.4	110	101	104	--	1.0	38
KANSAS AES	KS4120NSGT	RR1, STS	55.3	61.4	--	58.3	--	92	97	--	--	1.0	33
KANSAS AES	KS4520NS	C, STS	49.7	64.4	--	57.1	--	83	101	--	--	1.0	37
MIDLAND	3537NX	RR2X	65.7	<b>67.7</b>	<b>51.3</b>	66.7	61.6	109	107	104	--	1.0	45
MIDLAND	3711XS	RR2X, STS	<b>66.7</b>	--	--	--	--	111	--	--	--	1.0	53
MIDLAND	3930NXS	RR2X	<b>69.5</b>	<b>64.7</b>	--	67.1	--	115	102	--	--	--	48
MIDLAND	3999E3	E3	<b>64.9</b>	--	--	--	--	108	--	--	--	1.0	37
VIRTUE SEEDS	V 3720S	C	49.8	--	--	--	--	83	--	--	--	1.0	37
	AVERAGES		60.3	63.5	49.5								
	CV (%)		10.6	4.7	12.4								
	LSD (0.10)		9.0	4.1	8.4								

Values in bold are in the upper LSD group.

**North Central Kansas Experiment Field, Belleville, Republic County; Scott Dooley, agronomist**

Some plots suffered Dicamba damage in mid-July. Due to staff reorganization, its hard to say when the damage occurred. Most plants recovered or were partially stunted. Plentiful rain through July. Dry conditions in August may have slightly reduced pod filling. Mild temperatures for most of the growing season. No significant disease or insect pressure.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	0.5	2.5	2.5	6.3	0.4	1.6	13.7

Planted 5/15/2020 at 142,000 seeds/ft; harvested 10/15/2020; 23 ft. by 4-row plot; pesticides: 3/30/20: 1.5 qt/a Makaze, 8 oz/a Rifle, 1.5 pt/a Salvo; 6/22/20: 2 qt/a Makaze, 16 oz/a Intensity One, 0.6 oz/a First Rate

**Table 14. Belleville, Republic County Dryland Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHEL					YIELD AS % OF TEST AVERAGE			2020		Ht (in)
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	
ASGROW	AG35x9	RR2X	<b>78.5</b>	--	--	--	--	126	--	--	--	--	35
ASGROW	AG41x8	RR2X	<b>69.5</b>	--	--	--	--	111	--	--	--	--	43
ASGROW	AG48x9	RR2X	58.8	--	--	--	--	94	--	--	--	--	41
CHECK	20MG3.1	RR	<b>72.4</b>	--	--	--	--	116	--	--	--	--	42
CHECK	20MG3.9	RR	<b>73.1</b>	--	--	--	--	117	--	--	--	--	43
KANSAS AES	KS4117NS	C, STS	52.7	--	<b>61.7</b>	--	--	84	--	106	--	--	33
KANSAS AES	KS4120NSGT	RR1, STS	63.6	--	--	--	--	102	--	--	--	--	31
KANSAS AES	KS4520NS	C, STS	45.5	--	--	--	--	73	--	--	--	--	33
MIDLAND	3930NXS	RR2X	65.7	--	--	--	--	105	--	--	--	--	40
MIDLAND	3999E3	E3	67.6	--	--	--	--	108	--	--	--	--	31
MIDLAND	4140NXS	RR2X	<b>71.9</b>	--	--	--	--	115	--	--	--	--	40
MIDLAND	4260E3S	RR2X, STS	50.1	--	--	--	--	80	--	--	--	--	32
VIRTUE SEEDS	V 3720S	C	57.1	--	--	--	--	91	--	--	--	--	31
	AVERAGES		62.5	--	58.1								
	CV (%)		10.4	--	5.8								
	LSD (0.10)		9.0	--	4.6								

Values in bold are in the upper LSD group.

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

Planting conditions were not the best: the ground was cloddy, which made it difficult to keep a consistent planting depth and resulted in inadequate furrow closure. Fairly good seed fill conditions.

	April	May	June	July	Aug.	Sept.	Total
Rainfall:	2.0	5.1	1.3	8.7	1.3	2.1	20.6

Planted 6/2/2020 at 155,000 seeds/ft; harvested 10/19/2020; 12 ft. by 4-row plot; pesticides: Pre- 8 oz/a Authority Supreme, which was incorporated into the soil before planting.

**Table 15. Assaria, Saline County Dryland Soybean Performance Test, 2018-2020**

BRAND	NAME	TRAIT	ACRE YIELD, BUSHELS					YIELD AS % OF TEST AVERAGE			2020		
			2020	2019	2018	2-Yr. AVG.	3-Yr. AVG.	2020	2019	2018	Mat	Lodge score	Ht (in)
ASGROW	AG35x9	RR2X	57.6	<b>66.0</b>	--	61.8	--	97	113	--	9/28	1.0	40
ASGROW	AG41x8	RR2X	49.4	<b>63.7</b>	--	56.5	--	83	109	--	10/7	1.0	38
CHECK	20MG3.1	RR	<b>59.9</b>	52.3	--	56.1	--	101	89	--	9/30	1.0	44
CHECK	20MG3.9	RR	<b>59.8</b>	<b>63.2</b>	--	61.5	--	101	108	--	10/5	1.0	43
DONMARIO	DM 44X11	RR2X	<b>62.1</b>	--	--	--	--	105	--	--	10/10	1.0	42
DONMARIO	DM 49X13	RR2X	55.0	--	--	--	--	93	--	--	10/9	1.0	47
VIRTUE SEEDS	V 3720S	C	<b>60.8</b>	--	--	--	--	103	--	--	10/13	1.0	43
VIRTUE SEEDS	V 4520S	C	<b>63.6</b>	--	--	--	--	107	--	--	9/28	1.0	31
VIRTUE SEEDS	V 4921S	C	<b>61.4</b>	--	--	--	--	103	--	--	10/6	1.0	40
	AVERAGES		59.3	58.7	50.8								
	CV (%)		5.6	4.8	8.4								
	LSD (0.10)		3.9	3.3	5.0								

Values in bold are in the upper LSD group.

**Table 16. Yield as a Percentage of Test Average from 2020Soybean Tests**

<b>BRAND/NAME</b>	Riley	Topeka dryland	Topeka irrigated	Ottawa MG4	Ottawa MG5	Parsons MG4	Parsons MG 5	Parsons DC MG 4	Parsons DC MG 5	McCune	Pittsburg	Scandia	Belle- ville	Assaria	AVG
<b>ARKANSAS</b>															
R15-2422	--	--	--	--	--	--	99	--	100	94	83	--	--	--	94
R16-259	--	--	--	--	--	94	--	88	--	94	102	--	--	--	93
<b>ASGROW</b>															
AG35x9	106	96	117	113	--	91	--	81	--	89	107	99	126	97	102
AG41x8	101	97	94	--	--	--	--	--	--	--	--	100	111	83	98
AG48x9	--	101	134	94	--	--	102	--	--	--	110	100	94	--	105
<b>BIOMINERAL</b>															
BIOMINERAL-SO	91	102	--	--	--	--	--	--	--	--	--	--	--	--	96
BIOMINERAL-SY	96	95	--	--	--	--	--	--	--	--	--	--	--	--	95
<b>CHECK</b>															
20MG3.1	110	101	93	119	--	90	--	90	--	97	102	122	116	101	104
20MG3.9	99	95	111	107	--	98	--	108	--	101	105	96	117	101	103
20MG4.8	54	95	96	--	112	--	102	--	92	106	95	--	--	--	94
<b>DONMARIO</b>															
DM 44X11	--	99	92	106	--	101	--	94	--	103	94	--	--	105	99
DM 49X13	--	106	86	--	100	--	109	--	108	109	101	--	--	93	101
<b>DYNA-GRO</b>															
DG S43XS70	--	--	--	--	--	115	--	121	--	--	--	--	--	--	118
DG S44EN40	--	--	--	--	--	114	--	110	--	--	--	--	--	--	112
DG S45ES10	--	--	--	--	--	104	--	95	--	--	--	--	--	--	100
DG S46ES91	--	--	--	--	--	93	--	123	--	--	--	--	--	--	108
DG S46XS60	--	--	--	--	--	115	--	128	--	--	--	--	--	--	122
DG S48XT90	--	--	--	--	--	--	108	--	107	--	--	--	--	--	108
DG S49EN79	--	--	--	--	--	--	107	--	103	--	--	--	--	--	105
<b>KANSAS AES</b>															
K15-1809	--	--	--	--	121	--	106	--	108	112	107	--	--	--	111
K15-1874	--	--	--	--	103	--	100	--	100	107	107	--	--	--	104
K16-1208	98	--	--	--	--	--	--	--	--	--	--	--	--	--	98
K16-1222	95	--	--	--	--	--	--	--	--	--	--	--	--	--	95
K16-1229	102	--	--	--	--	--	--	--	--	--	--	--	--	--	102
K16-1729	95	--	--	--	--	--	--	--	--	--	--	--	--	--	95
KS4117NS	107	109	99	99	--	96	--	91	--	82	--	110	84	--	97
KS4120NSGT	107	104	102	105	--	93	--	103	--	87	--	92	102	--	99
KS4520NS	96	101	107	92	--	94	--	88	--	88	--	83	73	--	91
KS4919N	--	--	--	--	95	--	88	--	101	112	113	--	--	--	102
KS5004N	--	--	--	--	90	--	103	--	81	98	95	--	--	--	93
KS5120NS	--	--	--	--	109	--	101	--	104	108	117	--	--	--	108

Table 16 continued. Yield as a Percentage of Test Average from 2020 Soybean Tests

BRAND/NAME	Riley	Topeka dryland	Topeka irrigated	Ottawa MG4	Ottawa MG5	Parsons MG4	Parsons MG 5	Parsons DC MG 4	Parsons DC MG 5	McCune	Pittsburg	Scandia	Belle- ville	Assaria	AVG
<b>MIDLAND</b>															
3537NX	--	--	--	--	--	--	--	--	--	--	--	109	--	--	109
3711XS	--	--	114	--	--	--	--	--	--	--	--	111	--	--	112
3930NXS	114	100	111	--	--	--	--	--	--	--	--	115	105	--	109
3999E3	111	102	129	--	--	--	--	--	--	--	--	108	108	--	112
4140NXS	103	94	122	--	--	--	--	--	--	--	--	--	115	--	109
4251X	109	105	120	--	--	--	--	--	--	--	--	--	--	--	112
4260E3S	109	111	108	--	--	--	--	--	--	--	--	--	80	--	102
4488NXS	--	--	--	--	--	104	--	102	--	--	123	--	--	--	110
4677NXS	--	--	--	--	--	111	--	92	--	--	110	--	--	--	104
4850X	--	--	--	--	--	--	104	--	107	--	103	--	--	--	105
4880E3S	--	--	--	--	--	--	101	--	104	--	87	--	--	--	98
4991NXS	--	--	--	--	--	--	103	--	110	--	115	--	--	--	109
<b>MISSOURI</b>															
S15-10879C	--	78	--	89	--	82	--	95	--	97	--	--	--	--	88
S16-11644C	--	--	--	--	--	--	99	--	99	109	--	--	--	--	103
S16-11651C	--	--	--	--	--	--	96	--	100	93	--	--	--	--	96
S16-3747RY	--	--	--	--	--	--	91	--	106	99	--	--	--	--	99
S16-7922C	--	--	--	--	--	--	97	--	103	99	--	--	--	--	99
<b>STRATTON</b>															
AGS GS42X19S	--	--	77	91	--	106	--	114	--	107	99	--	--	--	99
AGS GS49X21	--	--	117	--	102	--	106	--	83	109	104	--	--	--	104
AGS GS52X19S	--	--	59	--	97	--	100	--	105	92	74	--	--	--	88
Go Soy 38E21S	--	--	99	118	--	100	--	104	--	106	112	--	--	--	106
Go Soy 43C17S	--	--	95	98	--	103	--	80	--	97	95	--	--	--	95
Go Soy 463E20S	--	--	87	86	--	95	--	112	--	103	98	--	--	--	97
Go Soy 471E19S	--	--	--	--	--	--	96	--	--	--	--	--	--	--	96
Go Soy 48C17S	--	--	76	--	91	--	91	--	97	93	76	--	--	--	87
Go Soy 491E19S	--	--	76	--	98	--	110	--	101	105	88	--	--	--	96
Go Soy 49G16	--	--	126	--	97	--	91	--	108	104	108	--	--	--	106
Go Soy 51E21	--	--	100	--	103	--	101	--	105	109	104	--	--	--	104
Go Soy 5214GTS	--	--	115	--	95	--	89	--	92	99	98	--	--	--	98
Go Soy GT Ireane	--	--	78	--	99	--	103	--	96	96	90	--	--	--	94
<b>VIRTUE SEEDS</b>															
V 3720S	--	99	98	96	--	101	--	91	--	94	--	83	91	103	95
V 4520S	--	96	105	108	--	108	--	103	--	107	105	--	--	107	105
V 4921S	--	107	82	--	92	--	98	--	107	105	94	--	--	103	99

**Table 17. Description of Entries in 2020 Soybean Performance Tests**

BRAND	NAME	TRAIT	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora	
						R1	R3	R4	R14	Source	RR	Tolerance
ARKANSAS	R15-2422	C	4.7	P	--	--	--	--	--	--	--	--
ARKANSAS	R16-253	C	4.6	W	--	--	--	--	--	--	--	--
ARKANSAS	R16-259	C	4.6	P	--	--	--	--	--	--	--	--
ASGROW	AG35x9	RR2X	3.4	--	--	--	--	--	--	--	--	--
ASGROW	AG41x8	RR2X	4.2	--	--	--	--	--	--	--	--	--
ASGROW	AG48x9	RR2X	5.1	--	--	--	--	--	--	--	--	--
BIOMINERAL	BIOMINERAL-SO	C	3.0	--	--	--	--	--	--	--	--	--
BIOMINERAL	BIOMINERAL-SY	C	3.0	--	--	--	--	--	--	--	--	--
CHECK	20MG3.1	RR	3.0	--	--	--	--	--	--	--	--	--
CHECK	20MG3.9	RR	4.0	--	--	--	--	--	--	--	--	--
CHECK	20MG4.8	RR	5.0	--	--	--	--	--	--	--	--	--
DONMARIO	DM 44X11	RR2X	4.0	--	--	--	--	--	--	--	--	--
DONMARIO	DM 49X13	RR2X	4.9	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S43XS70		4.3	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S44EN40		4.4	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S45ES10		4.5	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S46ES91		4.6	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S46XS60		4.6	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S48XT90		4.8	--	--	--	--	--	--	--	--	--
DYNA-GRO	DG S49EN79		4.9	--	--	--	--	--	--	--	--	--
KANSAS AES	K15-1809	C, STS	5.0	P	Bf	--	--	--	--	--	--	--
KANSAS AES	K15-1874	C, STS	4.0	W	Br	--	--	--	--	--	--	--
KANSAS AES	K16-1208	C	4.0	--	--	--	--	--	--	--	--	--
KANSAS AES	K16-1222	C	4.0	--	--	--	--	--	--	--	--	--
KANSAS AES	K16-1229	C	4.0	--	--	--	--	--	--	--	--	--
KANSAS AES	K16-1729	C	4.0	--	--	--	--	--	--	--	--	--
KANSAS AES	KS4117NS	C, STS	4.0	P	Bl	--	R	--	MR	--	--	--
KANSAS AES	KS4120NSGT	RR1, ST	4.1	--	--	--	--	--	--	--	--	--
KANSAS AES	KS4520NS	C, STS	4.0	--	--	--	--	--	--	--	--	--
KANSAS AES	KS4919N	C	5.0	W	Bl	--	--	--	--	--	--	--
KANSAS AES	KS5004N	C	5.0	--	--	--	R	--	MR	--	--	--
KANSAS AES	KS5120NS	C, STS	5.0	W	Br	--	--	--	--	--	--	--
KANSAS AES	KS5518	C	5.0	w	Bf	--	--	--	--	--	--	--
MIDLAND	3537NX	RR2X	3.5	--	--	--	R	--	MR	PI88788	--	2.0
MIDLAND	3711XS	RR2X, S	3.7	--	--	--	--	--	--	PI88788	--	--
MIDLAND	3930NXS	RR2X	3.9	--	--	--	--	--	--	PI88788	--	--
MIDLAND	3999E3	E3	3.9	--	--	--	--	--	--	PI88788	--	--
MIDLAND	4140NXS	RR2X	4.1	--	--	--	--	--	--	PI88788	--	3.0
MIDLAND	4251X	E3, STS	4.2	--	--	--	--	--	--	PI88788	--	--
MIDLAND	4260E3S	RR2X, S	4.2	--	--	--	--	--	--	PI88788	--	--
MIDLAND	4488NXS	RR2X/S	4.4	--	--	--	R	--	R	PI88788	--	2.0
MIDLAND	4677NXS	RR2X/S	4.6	--	--	--	R	--	MR	PI88788	--	2.0

**Table 17 continued. Description of Entries in 2020 Soybean Performance Tests**

BRAND	NAME	TRAIT	Maturity Group	Flower color	Hilum color	SCN Resistance					Phytophthora	
						R1	R3	R4	R14	Source	RR	Tolerance
MIDLAND	4850X	RR2X, S	4.8	--	--	--	--	--	--	--	--	--
MIDLAND	4880E3S	RR2X	4.8	--	--	--	--	--	--	--	--	--
MIDLAND	4991NXS	RR2X, S	4.9	--	--	--	--	--	--	PI88788	--	--
MISSOURI	S15-10879C	C	4.1	W	Bf	R	--	--	--	--	--	--
MISSOURI	S16-11644C	C	4.9	W	Br	--	MR	--	--	--	--	1.0
MISSOURI	S16-11651C	C	5.3	W	Bl	--	MR	--	--	--	1a	--
MISSOURI	S16-3747RY	R2Y	5.0	W	--	MR	MR	--	--	--	--	--
MISSOURI	S16-7922C	C	4.9	W	lb	S	MR	--	--	--	--	--
STRATTON	AGS GS42X19S	Xtend/S	4.2	P	lb	--	R	--	R	PI88788	--	--
STRATTON	AGS GS49X21	Xtend	4.9	P	Bl	--	R	--	R	PI88788	--	--
STRATTON	AGS GS52X19S	Xtend/S	5.2	W	Bf	--	R	--	R	PI88788	--	--
STRATTON	Go Soy 38E21S	Enlist/S	3.8	W	Br	--	R	--	R	PI88788	--	--
STRATTON	Go Soy 43C17S	C/STS	4.3	P	Bl	--	--	--	--	--	--	--
STRATTON	Go Soy 463E20S	Enlist/S	4.6	P	lb	--	R	--	R	PI88788	--	--
STRATTON	Go Soy 471E19S	Enlist, S	4.7	W	lb	--	--	--	--	--	--	--
STRATTON	Go Soy 48C17S	STS	4.1	P	Bl	--	R	--	R	PI88788	--	2.0
STRATTON	Go Soy 491E19S	Enlist/S	4.9	W	Bf	--	R	--	R	PI88788	--	--
STRATTON	Go Soy 49G16	RR	4.9	P	Bl	R	R	--	R	Hartwig	--	2.0
STRATTON	Go Soy 51E21	Enlist/S	5.1	W	Bf	--	R	--	R	PI88788	--	--
STRATTON	Go Soy 5214GTS	RR1	5.2	P	Bl	R	R	R	R	Hartwig	--	--
STRATTON	Go Soy GT Ireane	RR1	4.9	W	Bf	--	R	--	--	Peking	--	--
VIRTUE SEEDS	V 3720S	C	3.7	--	--	--	--	--	--	--	--	--
VIRTUE SEEDS	V 4520S	C	4.5	--	--	--	--	--	--	--	--	--
VIRTUE SEEDS	V 4921S	C	4.9	--	--	--	--	--	--	--	--	--

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](http://www.agronomy.k-state.edu/services/crop-performance-tests/index.html)**

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