

# UNIFORM SOYBEAN TESTS

## SOUTHERN STATES

# 2016

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Annual reports are available online at <http://www.ars.usda.gov/Main/docs.htm?docid=23815>

Uniform Soybean Test Parentage Information Database is available at:

<https://soybase.org/uniformtrial/index.php?page=lines>

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## INTRODUCTION

The Uniform Soybean Testing Program has been directed toward the testing of elite breeding lines that ultimately leads to the release of varieties. Breeding lines are developed and evaluated in several participating federal and state research programs. As breeding lines demonstrate specific qualities in the individual programs, they are advanced to the preliminary and uniform regional tests conducted in cooperation with research workers in the southern states. This testing program enables breeders to evaluate new strains under a wide variety of conditions, and permits new strains to be put into production in a minimum amount of time. Lines are usually entered only once in the Preliminary Test and then are either dropped or advanced to the Uniform Test for a maximum of three years if performance warrants further testing.

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best varieties available in each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the check varieties are: AG4232RR2Y, AG4135, LD06-7620, AG3934(RR2), AG4632RR2Y, AG4835(RR2), Ellis, Osage, JTN-5203, S11-20124, UA5612, AG5534(RR2), AG5335(RR2), NC-Roy, NCC06-1090, AG6534, NCC07-8138, AGS738RR, AG7733, N7003CN, NCC06-899, AGS828RR, AG7934, N8002, and N8001.

A wide range of soil and climatic conditions exists in the regions. As an aid in recognizing regional adaptation, the region has been subdivided into five rather broad areas which still represent a wide range of soil types. These are: (1) the East Coast, consisting of the Coastal Plain and Tidewater areas of the eastern shore of Maryland, Virginia, North Carolina, and the upper half of South Carolina; (2) the Southeast, consisting primarily of the Coastal Plain soils of the Gulf Coast area, but also including similar soil from South Carolina, southward; (3) the Upper and Central South, including the Piedmont and loessial hill soils east of the Mississippi River; (4) the Delta area, composed of the alluvial soils along the Mississippi River from southern Missouri, southward; and (5) the West, comprising Arkansas and Louisiana (outside the Delta), Kansas, Oklahoma, and Texas. In the West, the potential soybean-growing areas would include alluvial soils, and the Gulf Coast of Louisiana.

## **POLICY ON EVALUATION AND RELEASE OF STRAINS**

Germplasm exchange among breeding programs is the foundation of breeding progress. The purpose of the Uniform Soybean Test is to facilitate the free exchange of germplasm in an effort to maximize genetic diversity and provide well-adapted, stable breeding lines and varieties in the pursuit of breeding progress. Participants are encouraged to exchange germplasm within the legal guidelines pertaining to transgenic strains.

### Qualifications for Participation in the Uniform Soybean Tests

Participants must be willing and able to conduct unified tests with conventional strains and strains containing proprietary and/or transgenic traits.

Participants, upon submission of entries, must disclose pedigrees to the Uniform Soybean Test Coordinator for publication with performance data in the Uniform Soybean Test Report.

Participants are individually responsible to ensure that any transgenic entries that they submit are cleared for sale as commodity seed.

### Use of Uniform Soybean Test Entries in Soybean Breeding and Research

Seed of Uniform Soybean Test entries is for evaluation in the Uniform Soybean Tests only, and may not be distributed to non-participants in these tests without prior approval by the originator of the entry.

Trueness-to-type or purity of seed produced by the entries in the Uniform Soybean Tests cannot be guaranteed by the USDA. Therefore, seed produced by lines in the Uniform Test trials will not be distributed by the USDA to anyone, including the developer, except for trait analyses.

Non-transgenic entries in the Uniform Soybean Test may be used by Uniform Soybean Test participants as parents only in biparental crosses or for developing recurrent selection populations. Transgenic entries may be used in crossing subject to similar rules unless licensing or patenting restrictions regarding ownership of the transgenic trait limit this use.

Uniform Soybean Test participants must obtain prior approval before using any entry, other than their own, as recurrent parent in backcrossing, molecular research, genetic studies, or any other research.

Seed of any transgenic entry must not be used for further evaluation without written permission from the originator of the entry, and must be discarded at the end of the season, except for crossing purposes, subject to the restrictions outlined in the preceding sections two and three.

All published results from the USDA-ARS Uniform Soybean Tests Southern States may be used as a data base for statistical research and publication related to soybean breeding.

### Release of Uniform Soybean Test Entries

Entries in the Uniform Soybean Tests are released according to USDA-ARS and State Agricultural Experiment Station policies.

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## STRAIN DESIGNATION

The strains designated by number carry a letter prefix. This letter identifies where each strain was selected:

DA	-	Delta Branch Experiment Station and USDA-ARS, Stoneville, MS
DS	-	Delta Branch Experiment Station and USDA-ARS, Stoneville, MS
G	-	Georgia Agricultural Experiment Station
JTN	-	Tennessee Agricultural Experiment Station, Jackson and USDA-ARS
K	-	Kansas Agricultural Experiment Station
N	-	North Carolina Agricultural Experiment Station and USDA-ARS
NCC	-	North Carolina Agricultural Experiment Station and USDA-ARS
NLM	-	North Carolina Agricultural Experiment Station and USDA-ARS
R	-	Arkansas Agricultural Experiment Station
S	-	Missouri Agricultural Experiment Station
SA	-	Missouri Agricultural Experiment Station
SC	-	South Carolina Agricultural Experiment Station, Clemson
TCWN	-	North Carolina Agricultural Experiment Station and USDA-ARS
TN	-	Tennessee Agricultural Experiment Station
TNLR	-	Tennessee Agricultural Experiment Station
V	-	Virginia Agricultural Experiment Station, Virginia Tech

## SOYBEAN PARENTAGE INFORMATION

Historical Uniform Soybean Test Parentage Information can be found at the following:

<https://soybase.org/uniformtrial/index.php?page=lines>



## SOYBEAN NURSERY INFORMATION

### A. LOCATION CONTACT AND TESTS- 2016

2016 Locations	Location Contact	Area	IV-S-E	IV-S-E	IV-S-L	IV-S-L	V	V	VI	VI	VII	VII	VIII	VIII	
Belle Mina,AL	David Weaver	South						U		U					
Fairhope,AL	David Weaver	South								U		U		U	
Tallassee,AL(A)	David Weaver	South							P	U	P	U	P	U	
Tallassee,AL(B)	David Weaver	South												U	
Keiser,AR	P. Chen	Delta	P	U	P	U	P	U							
Stuttgart,AR	P. Chen	Delta	P		P	U	P	U	P	U					
Athens,GA(A)	Zenglu Li	South								U	P	U	P	U	
Athens,GA(B)	Zenglu Li	South										U		U	
Calhoun,GA	John Gassett	South								U		U			
Plains,GA	Zenglu Li	South									P	U	P	U	
Tifton,GA	John Gassett	South								U		U		U	
Carbondale,IL	Stella K. Kantartzi	South	P		P	U									
McCune,KS	W. T. Schapaugh, Jr.	West			P	U	P	U							
Pittsburg,KS	W. T. Schapaugh, Jr.	West			P	U	P	U							
Bossier City,LA	Blair Buckley	West				U		U		U		U			
Portageville,MO(A)	Grover Shannon	Delta		U		U		U							
Portageville,MO(B)	Grover Shannon	Delta	P	U	P	U	P	U							
Columbia,MO	Andrew Scaboo	Delta	P	U											
Starkville,MS	Brad Burgess	South		U		U		U							
Stoneville,MS	Gary Shelton	Delta	P	U	P	U	P	U	P	U					
Clayton,NC	Tommy Carter	East											U	P	U
Kinston,NC	Tommy Carter	East					P		P	U	P	U	P	U	
Plymouth,NC	Rouf Mian	East						U	P		P	U			
Clemson,SC	Ben Fallen	South							P	U		U		U	
Florence,SC	Ben Fallen	South								U	P	U	P	U	
Jackson,TN	P. Arelli	South	P		P	U	P	U							
Knoxville,TN	Vincent Pantalone	South	P	U	P	U	P	U							
Springfield,TN	Vincent Pantalone	South	P			U		U							
Orange,VA	Steve A. Gulick	South	P			U		U							
Suffolk,VA	David Holshouser	East						U							
Warsaw,VA	Bo Zhang	East			P	U	P	U							
TOTAL LOCATIONS PLANTED			10	7	10	15	10	17	6	12	6	13	6	11	
TOTAL LOCATIONS REPORTING DATA			10	7	10	15	10	17	6	11	6	12	6	11	

B. PLANTING DATES – 2016

2016 PLANTING DATES	PIV-S-E	PIV-S-L	PV	PVI	PVII	PVIII	UIV-S-E	UIV-S-L	UV	UVI	UVII	UVIII
Belle Mina,AL									5/17	5/18		
Fairhope,AL										6/9	6/9	6/9
Tallassee,AL(A)				5/24	5/24	5/24				5/24	5/24	5/24
Tallassee,AL(B)												6/30
Keiser,AR	5/11	5/11	5/11				5/11	5/11	5/11			
Stuttgart,AR	5/8	5/8	5/14	5/14				5/8	5/14	5/14		
Athens,GA(A)					5/26	5/26				5/26	5/26	5/26
Athens,GA(B)											6/27	6/27
Calhoun,GA										6/3	6/3	
Plains,GA					6/1	6/1					6/1	6/1
Tifton,GA										5/23	5/23	5/23
Carbondale,IL	6/10	6/10						6/10				
Valmeyer,IL(SDS)							4/19	4/19	4/19			
McCune,KS		6/15	6/15					6/15	6/15			
Pittsburg,KS		6/10	6/10					6/10	6/10			
Bossier City,LA								5/17	5/17	5/17	5/24	
Portageville,MO(A)							4/21	4/21	4/21			
Portageville,MO(B)	5/9	5/19	5/19				5/19	5/19	5/19			
Columbia,MO	5/12						5/12					
Starkville,MS							5/9	5/9	5/9			
Stoneville,MS	4/25	4/25	4/25	4/25			4/25	4/25	4/25	4/25		
Clayton,NC						6/25					6/25	6/25
Kinston,NC			6/13	6/13	6/13	6/13				6/13	6/13	6/13
Plymouth,NC				5/20	5/20				5/20		5/20	
Clemson,SC				6/15						6/15	6/15	6/15
Florence,SC					6/1	6/17				6/1	6/1	6/10
Jackson,TN	5/19	5/19	5/19					5/19	5/19			
Knoxville,TN	5/9	5/9	5/9				5/9	5/9	5/9			
Springfield,TN	5/23							5/23	5/23			
Orange,VA	5/27							5/27	5/27			
Suffolk,VA									5/26			
Warsaw,VA		6/9	6/9					6/9	6/9			

C. HARVEST DATES – 2016

2016 HARVEST DATES	PIV-S-E	PIV-S-L	PV	PVI	PVII	PVIII	UIV-S-E	UIV-S-L	UV	UVI	UVII	UVIII
Belle Mina,AL									9/30	10/14		
Fairhope,AL										10/27	10/28	10/28
Tallassee,AL(A)				11/3	11/3	11/4				11/3	11/3	11/4
Tallassee,AL(B)												11/4
Keiser,AR	9/29	9/29	10/5				9/29	9/29	10/5			
Stuttgart,AR	10/18	10/18	10/31	10/31				10/18	10/31	10/31		
Athens,GA(A)					11/1	11/1				10/24	10/31	11/1
Athens,GA(B)											11/8	11/8
Calhoun,GA										10/31	10/31	
Plains,GA					10/19	10/19					10/19	10/19
Tifton,GA										10/10	10/10	10/10
Carbondale,IL	10/26	10/26						10/26				
Valmeyer,IL(SDS)							NH	NH	NH			
McCune,KS		11/10	11/10					11/10	11/10			
Pittsburg,KS		11/9	11/9					11/9	11/9			
Bossier City,LA								11/10	11/10	11/15	NH	
Portageville,MO(A)							9/30	10/11	10/13			
Portageville,MO(B)	9/29	10/19	10/19				10/3	10/21	10/21			
Columbia,MO	10/18						10/18					
Starkville,MS							9/26	9/26	9/26			
Stoneville,MS	9/12	9/19	9/30	10/5			9/12	9/19	9/30	10/5		
Clayton,NC						11/29					11/29	11/29
Kinston,NC			11/20	11/20	11/20	11/20				11/20	11/20	11/20
Plymouth,NC				11/15	11/15				11/15		11/15	
Clemson,SC				11/10						11/10	11/17	11/17
Florence,SC					11/16	12/1				11/16	11/16	11/21
Jackson,TN	10/4	10/6	10/11					10/6	10/11			
Knoxville,TN	9/21	10/3	10/13				9/22	10/3	10/14			
Springfield,TN	10/18							10/24	10/24			
Orange,VA	10/18							10/25	10/25			
Suffolk,VA									11/16			
Warsaw,VA		10/24	11/1					10/24	11/1			

Location Notes	
Valmeyer,IL(SDS)	Not harvested. Disease observation plots.
Bossier City,LA	Not harvested. Plots abandoned in field due to wet fall.
Kinston,NC	UVI Data dropped due to Hurricane damage.

NH= Not harvested

D. AGRONOMIC CHARACTERISTICS OF LOCATIONS – 2016

2016 Location	SOIL TYPE	Row Spacing	Planted Length	Harvested Length	Trial Bordered	End Trim-med	# Rows Planted	# Rows Harvested	Prior Crop	Irri-gated
Belle Mina,AL	Decatur silt loam	30	20	20	No	No	4	2	Cotton	No
Fairhope,AL	Malbis fine sandy loam	38	20	18	Yes	Yes	4	2	Cotton	No
Tallassee,AL(A)	Cahaba fine sandy loam	36	20	20	Yes	No	4	2	Fallow	Yes
Tallassee,AL(B)	Cahaba fine sandy loam	36	20	20	Yes	No	4	2	Fallow	Yes
Keiser,AR	Sharkey silty clay	38	15	15	Yes	No	4	2	Corn	Yes
Stuttgart,AR	Crowley silt loam	30	15	15	Yes	No	4	2	Rice	Yes
Athens,GA(A)	Cecil coarse sandy loam	30	20	12	Yes	Yes	4	2	Cotton, Fallow	Yes
Athens,GA(B)	Cecil coarse sandy loam	30	20	12	Yes	Yes	4	2	Grain sorghum	Yes
Calhoun,GA	Waynesboro Loam	30	21	18	Yes	Yes	4	2	Small Grains	Yes
Plains,GA	Greenville sandy clay loam	30	20	10	Yes	Yes	4	2	Cotton	Yes
Tifton,GA	Tifton sandy loam	30	21	18	Yes	Yes	4	2	Corn	Yes
Carbondale,IL	Hoyleton	30	15	15	Yes	No	4	2	Corn	No
Valmeyer,IL(SDS)	Bonnie silt loam	30	15	15	Yes	No	4	2	Corn	No
McCune,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Corn	No
Pittsburg,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Soybeans	No
Bossier City,LA	Caplis very fine sandy loam	40	28	20	Yes	Yes	4	2	Soybeans	Yes
Portageville,MO(A)	Dundee silt loam	30	12	12	Yes	No	4	2	Soybean	Yes
Portageville,MO(B)	Sharkey clay	30	12	12	Yes	No	4	2	Soybean	Yes
Columbia,MO	Mexico-silt loam	30	12	12	Yes	No	4	2	Wheat	Yes
Starkville,MS	Brooksville silty clay	19	20	14.5	Yes	Yes	3	3	Corn	No
Stoneville,MS	Sharkey clay	26	18.5	16	Yes	Yes	5	3	Soybean	Yes
Clayton,NC	Norfolk sandy loam	38	18	15	Yes	Yes	3	1	Cotton	Yes
Kinston,NC	Stallings loamy sand	38	18	15	Yes	Yes	3	1	Corn	No
Plymouth,NC	Portsmouth silt loam	38	19	15	Yes	Yes	3	1	Corn	No
Clemson,SC	Cartecay fine sandy loam	30	30	22	Yes	Yes	4	2	Corn	No
Florence,SC	Sandy Loam	30	20	18	Yes	Yes	4	2	Corn	Yes
Jackson,TN	Vicksburg silt loam/ Vicksburg fine sandy loam	30	20	20	Yes	No	4	2	Soybeans	No
Knoxville,TN	Sequatchie silt loam*	30	20	16	Yes	Yes	4	2	Soybeans	NO
Springfield,TN	Staser Silt Loam	30	25	16	Yes	Yes	4	2	N/A	Yes
Orange,VA	Davidson	21	16	12	Yes	Yes	3	3	Corn	No
Suffolk,VA	Dragston fsl / Eunola lfs	15	24	17	Yes	Yes	5	3	Corn	No
Warsaw,VA	Kempsville loam	30	18	12	Yes	Yes	4	2	Small Grains	No

## E. WEATHER STATION URL

Location	Weather Station URL	Notes
Belle Mina, AL	national weather sevice	
Fairhope, AL	national weather sevice	
Tallassee, AL(A)	not reported	
Tallassee, AL(B)	not reported	
Pine Tree, AR	N/A	
Rohwer, AR	<a href="http://www.aragriculture.org/weather/default.asp">http://www.aragriculture.org/weather/default.asp</a>	
Georgetown, DE	<a href="http://www.rec.udel.edu/TopLevel/Weather.htm">http://www.rec.udel.edu/TopLevel/Weather.htm</a>	
Athens, GA (A)	<a href="http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP">http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP</a>	
Athens, GA (B)	<a href="http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP">http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP</a>	
Calhoun, GA	<a href="http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GACA">http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GACA</a>	
Plains, GA	<a href="http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAPL">http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAPL</a>	
Tifton, GA	<a href="http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GATI">http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GATI</a>	
Ullin, IL	none	
McCune, KS	<a href="http://www.oznet.ksu.edu/wdl/">http://www.oznet.ksu.edu/wdl/</a>	
Pittsburg, KS	<a href="http://www.oznet.ksu.edu/wdl/">http://www.oznet.ksu.edu/wdl/</a>	
Princeton, KY	<a href="http://www.nass.usda.gov/Statistics_by_State/Kentucky/Publications/Agri-News/oct226.pdf">http://www.nass.usda.gov/Statistics_by_State/Kentucky/Publications/Agri-News/oct226.pdf</a>	
Alexandria, LA	<a href="http://www.lsuagcenter.com/weather">www.lsuagcenter.com/weather</a>	
Bossier City, LA	<a href="http://www.lsuagcenter.com/weather/taledata.asp">www.lsuagcenter.com/weather/taledata.asp</a>	
Queenstown, MD	none	
Portageville, MO(A)	<a href="http://agebb.missouri.edu/weather/realtime/portageville.asp">http://agebb.missouri.edu/weather/realtime/portageville.asp</a>	
Portageville, MO(B)	<a href="http://agebb.missouri.edu/weather/realtime/portageville.asp">http://agebb.missouri.edu/weather/realtime/portageville.asp</a>	
Starkville, MS	<a href="http://www.deltaweather.msstate.edu/">http://www.deltaweather.msstate.edu/</a>	
Stoneville, MS	<a href="http://www.deltaweather.msstate.edu/">http://www.deltaweather.msstate.edu/</a>	Stoneville is at the end of the list of weather stations.
Jackson Springs, NC	<a href="http://www.nc-climate.ncsu.edu/cronos/index.php?station=JACK&amp;temporal=daily">http://www.nc-climate.ncsu.edu/cronos/index.php?station=JACK&amp;temporal=daily</a>	Sandhills Station, NC (Jackson Springs)
Kinston, NC	<a href="http://www.nc-climate.ncsu.edu/cronos/index.php?station=314689&amp;temporal=D">http://www.nc-climate.ncsu.edu/cronos/index.php?station=314689&amp;temporal=D</a>	Kinston, NC
Plymouth, NC(A)	<a href="http://www.nc-climate.ncsu.edu/cronos/?station=PLYM">http://www.nc-climate.ncsu.edu/cronos/?station=PLYM</a>	Tidewater Research Station
Plymouth, NC(B)	<a href="http://www.nc-climate.ncsu.edu/cronos/?station=PLYM">http://www.nc-climate.ncsu.edu/cronos/?station=PLYM</a>	Tidewater Research Station
Bixby, OK	<a href="http://www.mesonet.ou.edu">www.mesonet.ou.edu</a>	
Stillwater, OK	<a href="http://www.mesonet.ou.edu">www.mesonet.ou.edu</a>	
Blackville, SC(A)	<a href="http://www.ncdc.noaa.gov/crn/">http://www.ncdc.noaa.gov/crn/</a>	
Blackville, SC(B)	<a href="http://www.ncdc.noaa.gov/crn/">http://www.ncdc.noaa.gov/crn/</a>	
Clemson, SC	<a href="http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KSCCLEMS1&amp;graphspan=month&amp;month=6&amp;day=1&amp;year=2007">http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KSCCLEMS1&amp;graphspan=month&amp;month=6&amp;day=1&amp;year=2007</a>	
Florence, SC	not reported	
Jackson, TN	None on the web	
Knoxville, TN	<a href="http://www.ncdc.noaa.gov">www.ncdc.noaa.gov</a>	Look on left menu for "Find a Station" for Knoxville Experiment Station
Springfield, TN	not reported	
Bardwell, TX	not reported	
Cooper, TX	not reported	
Orange, VA	not reported	
Petersburg, VA	<a href="http://www.accuweather.com/forecast-climo.asp?partner=30371&amp;traveler=0&amp;zipChg=1&amp;zipcode=23841&amp;metric=0">http://www.accuweather.com/forecast-climo.asp?partner=30371&amp;traveler=0&amp;zipChg=1&amp;zipcode=23841&amp;metric=0</a>	This only has the past two months of data
Suffolk, VA	not reported	
Warsaw, VA	<a href="http://www.ext.vt.edu/cgi-bin/WebObjects/Mesonet.woa/wa/lookupCoordinate?472,102">http://www.ext.vt.edu/cgi-bin/WebObjects/Mesonet.woa/wa/lookupCoordinate?472,102</a>	EVAREC is location name

## METHODS

### CULTURAL PRACTICES

Please see Soybean Nursery Information – Tables A, B, C, D, and E for details on locations including contacts, row spacing, plot dimensions, end trimming, planting dates, harvest dates, crop rotation and weather station URLs. Cultural practices, including fertilization, chemical application and irrigation practices, varied at each location to conform to the normal practices of each collaborator. The uniform tests were planted with three (3) replications and the preliminary tests were planted with two (2) replications except three replications were planted for PVII and PVIII.

### MATURITY, HARVEST, AND YIELD

Height. Height (HT) in a plot was measured as the average length of plants in inches from the ground to the top extremity at maturity.

Lodging. Lodging (LOD) notes were recorded on a scale of 1 to 5 according to the following criteria:

- 1 - almost all plants erect
- 2 - either all plants leaning slightly, or a few plants down
- 3 - either all plants leaning moderately, or 25 to 50% of the plants down
- 4 - either all plants leaning considerably, or 50 to 80% of the plants down
- 5 - all plants down

Maturity. Maturity was recorded as the date when 95% of the pods had reached mature pod color (Fehr and Caviness, 1977). Maturity in all summaries is expressed as days earlier (-) or later (+) than the reference variety. Reference varieties used in the different maturity groups were as follows: UIV-S (E) and PIV-S (E) - AG 4232; UIV-S (L) and PIV-S (L) - Ellis; UV and PV – Osage; UVI and PVI – AG6534; UVII and PVII – AGS-738RR; and UVIII and PVIII – AGS828RR.

Yield. Please see Agronomic Characteristics of Locations for information on end trimming and which rows were harvested for yield data at each location. Actual seed weights were recorded after the seed of the strains had reached uniform moisture content or seed weight at harvest was adjusted to 13% moisture content. Seed weights were converted to bushels per acre (60 lbs/bu.) by using the appropriate conversion factor for each location with respect to harvested plot size.

Seed Quality. Seed quality was rated from 1 to 5 according to the following scale:

- 1 - very good; 2 - good; 3 - fair; 4 - poor; 5 - very poor

Factors considered in estimating seed quality were development of seed, wrinkling damage, and brightness. While the seed quality score indicates relative appearance of seed for strains at one location, considerable differences can exist among factors responsible for the poorer grades at different locations. Seed size for each strain was determined from a composite sample from all replications at a location. Seed size is reported as grams per 100 seed.

Oil and Protein. Oil and protein percentages were determined from representative locations of the uniform and preliminary tests. A 50 ml composite sample of each strain from all replications in a test at a location was sent

to the USDA-ARS, National Center for Agricultural Utilization Research, Bio-Oils Research Unit at Peoria, Illinois for analysis. Please note that the analysis was performed by a different Research Unit than in 2011 and prior years. One sample of 40-50 ml of seed was analyzed using 10 subsamples (10 readings on the sample) for protein and oil composition with a Foss Infratec 1241 Grain Analyzer. Analysis of the seed was conducted on an as is basis and then mathematically converted to a 13% moisture basis (13%) beginning in 2015. Prior to 2015 protein and oil percentages were reported on a dry weight basis (DW). The conversion factor is 1.1494252 to convert from 13% to DW. The conversion factor is 0.87 to convert DW to 13%.

### **PEST ASSESSMENT**

Soybean Mosaic Virus (SMV). Thirty seeds of each entry are planted in a single three-foot row in the field at Blacksburg, VA. Inoculation is done 3 to 4 weeks later using SMV strain G1. Inoculation method is described in Ma et. al. 1995. Counts of resistant and susceptible plants are taken about 4 weeks after inoculation. 'Lee 68' and 'York' were susceptible and resistant controls, respectively. Lines were rated as follows.

- R = resistant
- Sus = susceptible
- Seg = segregating for susceptibility and resistance
- Sev = severe SMV susceptibility
- Mild = mild SMV susceptibility
- Few = few plants in row

Generally any line that displays a severe reaction may suffer yield loss under disease pressure in commercial plantings. Lines described as resistant showed no virus symptoms. NOTE: No results were reported in 2014, 2015 and 2016 due to personnel changes.

Root-knot Nematode. Screenings of strains of UIV-S - UVIII for reaction to southern root-knot nematode (*Meloidogyne incognita* (Kofoid and White) Chitwood) (SRK) and to peanut root-knot nematode (*Meloidogyne arenaria* (Neal) Chitwood) (PRK) were conducted in a greenhouse at the University of Georgia.

Three seeds of each genotype were planted in Ray Leach Cone-tainers (20.6 cm long) filled with fumigated sandy loam soil to within 5 cm of the top and then covered with 2.5 cm of fumigated sand. Ten Cone-tainers each of a susceptible and resistant standard cultivar were included in each test. Forty-nine Cone-tainers were placed in a RL-98 tray, filling every other row of the tray. The trays (45) were placed on a greenhouse bench under supplemental light provided by 400-watt metal halide lamps and under an automatic irrigation system. Seven to 10 days after planting, plants were thinned to one seedling per Cone-tainer and inoculated with 3000 root-knot nematode eggs collected with 0.5% NaOCL (10% Clorox). The inoculum (3-5 ml depending on egg concentration) was placed with a digital dispensing pump in a soil at a depth of 2-3 cm. Plants were watered manually for 1-2 days following inoculation before turning on the automatic irrigation system. All plants were fertilized weekly with 20-20-20 (N = 20%, P = 8.7%, K = 16.6%) fertilizer solution.

Thirty days after inoculation, roots of two of the standard check plants were examined for galls to assess whether to begin the process of evaluating the entire test. For evaluation, shoots were excised and root systems removed from the Cone-tainers and washed free of soil. For screening advanced breeding lines, the total number of galls per root system was counted. For all other studies, the number of galls on the remainder of the susceptible and resistant check plants was used to develop a gall index for evaluating the genotypes. The gall indexes (based on the number of galls/plant) were as follows: *Meloidogyne incognita* (SRK): 1 = 0-10, 2 = 11-20, 3 = 21-30, 4 = 31-40, and 5 = 41+ galls; *M. arenaria* (PRK): 1 = 0-30, 2 = 31-60, 3 = 61-90, 4 = 91-120, and 5 = 121+ galls.

Soybean Cyst Nematode (SCN). Screening for plant reaction to soybean cyst nematode (*Heterodera glycines* Ichinohe) (SCN) populations was conducted in the greenhouse at the ARS-Crop Genetics Research Unit in Jackson, TN in 2016 (and early 2017). Screening for SCN was done with HG Type 1.2.5.7 (race 2), HG Type 5.7 (race 3), and HG Type 2.5.7 (race 5). One seed of each soybean entry (UIVS-UVIII and PIV-S-PVIII) was planted in sterile soil mix with 7 replications per each SCN population. At the time of planting, approximately 2500 eggs of the population being evaluated were added to each pot. Approximately four weeks after planting, plants were rated based on the number of cysts on the roots. The ratings were as follows: 1 = 0-5 cysts on the root, 2=6-10 cysts on the root, 3=11-20 cysts on the root, 4=21-40 cysts on the root, and 5=> 40 cysts on the root. The 7 replications were averaged and if there were less than 4 plants to rate, the screening was repeated and the data was not shown if there were less than 4 plants for the rating. The mean rating = (rating category x number of plants receiving rating)/total number of plants in that comparison.

In 2016 the HG Types of the populations were as follows: HG Type 1.2.5.7 (race 2), HG Type 5.7 (race 3), and HG Type 2.5.7 (race 5). 5601T was used as the standard susceptible. The standard index lines were included in every test to confirm characterization. For race 2, 5601T had an average of 165 cysts per test. The female index for the cultures were as follows: Pickett FI 131(%), PI 548402 FI 36(%), PI 88788 FI 128(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 96(%), PI 89772 FI 0(%), and PI 548316 FI 97(%). For race 3, 5601T had an average of 103 cysts per test. The female index for the cultures were as follows: Pickett FI 1(%), PI 548402 FI 0(%), PI 88788 FI 7(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 50(%), PI 89772 FI <0(%), and PI 548316 FI 13(%). For race 5, 5601T had an average of 210 cysts per test. The female index for the cultures were as follows: Pickett FI 16(%), PI 548402 FI 2(%), PI 88788 FI 20(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 32(%), PI 89772 FI 0(%), and PI 548316 FI 18(%)

Stem Canker (SC). Soybean strains from all tests were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi for their reaction to *Diaporthe aspalathi* ( $\equiv$  *D. phaseolorum* var *meridionalis*) (SC), the fungus that causes southern stem canker. Strains were planted in non-replicated single-row plots 1.8 m long. Inoculum was produced by aseptically culturing isolates. Autoclaved, flat toothpicks containing a single isolate from Mississippi known as MS-SSC91 were provided by Dr. Shuxian Li, USDA-ARS. Twelve plants per plot were inoculated by forcing a toothpick through the stem in the upper one-third of a young plant. Lesion development on the stem at the inoculation site was observed and noted every 2 weeks beginning with initial signs of disease on the susceptible checks. Final scores were determined when the susceptible checks had been killed by the disease, or the plot was near maturity. Plants having any external lesion were considered as susceptible. The final score was based on the overall appearance of all inoculated plants in a plot.

A rating of R = resistant, MR = moderately resistant, SS = segregating or somewhat susceptible, MS = moderately susceptible or S = susceptible was applied to each strain and derived based on a comparison of the final score with the disease level of the susceptible checks. Leaf symptoms were based on the presence or absence of interveinal chlorosis as observed on inoculated plants. The presence of main stem lesions was observed at or around the point of inoculation based on the presence of a toothpick. Individual soybean strains were rated as follows:

1. No plants exhibited external lesions, no leaf damage and no dead plants (R).
2. No plants exhibited external lesions. A few plants showed minor leaf symptoms (MR).
3. Segregating for susceptible and resistant plants based on stem lesion; **or** minor external lesions and minor leaf symptoms, but no dead plants (SS).
4. All plants exhibited external lesions, all plant have leaf symptoms, some plants are not dead (MS).
5. All plants exhibited external lesion and all plants dead (S).

The score for susceptible checks AG4403 and Dixie4866, and resistant checks Ellis and AG4632 were 5, 5, 1 and 1, respectively.



Sudden Death Syndrome (SDS). SDS, which is caused by the fungus *Fusarium virguliforme*, was evaluated for UIV-S-EARLY, UIV-S-LATE and UV at Shawneetown, IL (SDS1) and Valmeyer, Illinois (SDS2) in two plots 10 feet long. Disease incidence (DI), the % of plant exhibiting symptoms, was recorded between growth stages R5.8 and R6.4, along with disease severity (DS), which was scored on a 1-9 scale with 1 = mild chlorosis, 5 = severe leaf scorch, and 9 = premature death of plant. Disease index (DX) was then calculated as  $(DI*DS)/9$ . DX is reported. The Shawneetown DX for UIV susceptible checks Spencer and CM 497, were 50 and 18.3, respectively, and the resistant checks Ripley and LS94-3207, were 0.0 and 1.7 respectively. The Valmeyer DX for UIV-S-EARLY and UIV-S-LATE susceptible checks Spencer and CM 497, were 1.7 and 72.1, respectively, and the resistant checks Ripley and LS94-3207, respectively, were 0.0 and 0.0. The Shawneetown DX for MGV susceptible checks AG5403 and DP 5414RR, were 77.8 and 22.8, respectively, and the resistant checks LS90-1920 and A5560, were 0.0 and 0.0 respectively. The Valmeyer DX for UV susceptible checks AG5403 and DP 5414RR, were 33.3 and 27.8, respectively, and the resistant checks LS90-1920 and A5560, were 0.0 and 0.0 respectively.

Frogeye Leaf Spot (FLS). FLS, which is caused by the fungus *Cercospora sojae* Hara, was evaluated for UIV-S-EARLY and UIV-S-LATE at Shawneetown, Illinois in two plots 10 feet long. Disease severity (FLS Severity) was scored on a 0-9 scale with 0= no symptoms, 1 = 10% of leaf area covered with lesion, 2 = 20%, 3 = 30%, 4 = 40%, 5 = 50%, 6 = 60%, 7 = 70%, 8 = 80% and 9=90% of leaf area covered and/or defoliation occurring. The FLS score for susceptible checks Spencer and CM 497 were 8.0 and 8.0, respectively; and resistant checks Ripley and LS94-3207 were 1.0 and 0.0, respectively.

## STATISTICAL ANALYSES

Yield, maturity, height, lodging and quality data for each test were analyzed by location by analysis of variance using a mixed model (Proc Mixed in SAS) with variety as the fixed effect and replication as random. Coefficient of variation (CV) and LSD ( $\alpha = 0.05$ ) were calculated from the Proc Mixed output for yield. LSmeans are presented when multiple replications of data were available. Any location that does not have at least two replications of yield data is not included in the yield analysis. In the cases when only 1 replication of data was provided for variables other than yield, the actual values for that replication were presented.

Yield, maturity, height, lodging and quality for each test were analyzed by area for the uniform tests by analysis of variance using a mixed model (Proc Mixed in SAS) with variety as a fixed effect and location replication(location) location\*variety; as random effects. Coefficient of variation (CV) and LSD ( $\alpha = 0.05$ ) were calculated from the Proc Mixed output. The absolute value of CV is presented when a negative CV is produced. The location means are presented for areas that only have data from one location. Yield data from locations with a yield CV of over 15 were omitted from area means.

Yield, maturity, height, lodging and quality for each test were analyzed over all locations for the uniform tests and the preliminary tests by analysis of variance using a mixed model (Proc Mixed in SAS) with variety as a fixed effect and location replication(location) location\*variety as random effects. Coefficient of variation (CV) and LSD ( $\alpha = 0.05$ ) were calculated from the Proc Mixed output. **Yield data from locations with a yield CV of over 15 were omitted from test means and ranks.**

The protein and oil data for a variety/strain at a location is the NIR analysis results from one composite sample of all replications for each entry at the location. Size data is collected either for all replications, or as a composite sample. Arithmetic means are presented for composite samples and LSmeans are presented for replicated data. Protein, oil and size were analyzed by test by analysis of variance using a mixed model (Proc Mixed in SAS) with variety as a fixed effect and location; as a random effect. Coefficient of variation (CV) and average LSD ( $\alpha = 0.05$ ) were calculated from the Proc Mixed output. LSmeans are presented for the test means.

The Rank column in the general summary tables indicated the relative ranking of the yield based on the average performance of a line across locations. Locations with a high yield CV value are not included in Rank calculations.

The Average Rank column in the general summary tables indicates the yield rank of a line based on the average of a line's rank at each individual location. Locations with a high yield CV value are not included in Average Rank calculations.

**TABLE 1 - PARENTAGE OF ENTRIES  
UNIFORM GROUP IV-S-EARLY 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AG 4232RR2Y	Commercial check			RR2	
2	AG 4135	Commercial check			RR2	
3	LD06-7620	IA3023 x LD00-3309			Conv	
4	AG 3934RR2	Commercial check			RR2	
5	DS03-14	LG99-5106 x LG97-9226	Smith	F6	Conv	Exotic yield
6	DS13-141	L86-1752 x GC00138-29	Smith	F5	Conv	SR
7	S13-1033	K07-1633 x AR09-391017	Shannon		Conv	
8	S13-2743	LS07-3125 x S05-11400	Shannon		Conv	
9	S13-3791	LD06-7596 x S07-5117	Shannon		Conv	
10	S13-10590	S08-17361 x S05-11482	Shannon		Conv	
11	S13-10592	S08-17361 x S05-11482	Shannon		Conv	
12	S13-11061	LD07-3419 x K08-5026	Shannon		Conv	
13	S13-11733	S05-11482 x S08-6800	Shannon		Conv	
14	TN09-193	TN02-302 x U98-307917	Pantalone		Conv	
15	TN13-3519R2	LD02- 7222P x (TN02-226 x MonRR2)	Pantalone		RR2	
16	TN14-4001	G03-3101 x LD00-2817P	Pantalone		Conv	
17	TN14-4008	TN09-029 x 17D x S08-14788 #7	Pantalone		Conv	High Oleic
18	V11-2187	LG04-6000 x V03-7833	Zhang		Conv	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 2 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST IV-S-EARLY 2016**

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD‡			PROTEIN†			OIL†		
			2016	15-16	14-16	2016	15-16	14-16	2016	15-16	14-16
AG 4232RR2Y	7	8	68.2	.	.	34.9	.	.	19.8	.	.
AG 4135	2	4	72.0	.	.	35.7	.	.	20.0	.	.
LD06-7620	15	13	59.2	.	.	36.7	.	.	19.4	.	.
AG 3934RR2	11	9	66.7	58.4	58.4	35.8	36.1	36.2	20.0	19.7	19.6
DS03-14	14	12	62.9	57.1	.	34.8	34.8	.	20.6	20.5	.
DS13-141	16	16	58.1	51.1	.	37.1	37.1	.	18.8	18.6	.
S13-1033	9	9	66.9	.	.	35.2	.	.	19.7	.	.
S13-2743	5	7	68.9	.	.	35.1	.	.	20.8	.	.
S13-3791	6	8	68.6	.	.	34.8	.	.	19.5	.	.
S13-10590	1	3	74.4	.	.	35.7	.	.	20.3	.	.
S13-10592	3	6	71.2	.	.	36.5	.	.	20.2	.	.
S13-11061	8	9	67.4	.	.	34.3	.	.	20.4	.	.
S13-11733	12	9	66.7	.	.	34.8	.	.	19.7	.	.
TN09-193	13	10	66.0	.	.	35.0	.	.	19.4	.	.
TN13-3519R2	10	9	66.8	.	.	35.7	.	.	20.1	.	.
TN14-4001	18	16	49.9	.	.	39.1	.	.	18.4	.	.
TN14-4008	17	16	50.0	.	.	37.2	.	.	19.9	.	.
V11-2187	4	7	69.0	.	.	36.0	.	.	19.8	.	.
Mean	.	.	65.2	.	.	35.8	.	.	19.8	.	.
LSD(0.05)	.	.	7.3	.	.	0.8	.	.	0.4	.	.
CV(%)	.	.	11.5	.	.	1.9	.	.	1.9	.	.

‡Data not included in mean: 2016 - Knoxville, TN; Starkville, MS  
2015 - Orange, VA; Springfield, TN  
2014 - Carbondale, IL; Orange, VA

†Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.

**TABLE 3 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LOGGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AG 4232RR2Y	0	2.5	36	1.7	13.6	P	G	T
AG 4135	-5	2.3	36	2.1	14.7	W	G	Br
LD06-7620	-6	2.0	29	2.6	14.7	P	G	Br
AG 3934RR2	-7	2.3	33	1.9	15.7	P	G	Br
DS03-14	-7	2.9	37	2.0	14.2	P	T	Br
DS13-141	-4	2.4	42	1.8	14.9	P	T	Br
S13-1033	-6	2.9	34	2.1	13.8	P	G	Br
S13-2743	-4	2.4	39	1.9	13.6	W	G	Br
S13-3791	1	2.5	36	1.9	14.2	W	G	T
S13-10590	-1	2.7	35	2.5	15.4	W	T	T
S13-10592	2	3.4	35	2.4	16.1	W	T	T
S13-11061	-4	3.4	36	1.9	15.1	W	G	T
S13-11733	4	2.5	38	2.0	12.7	P	T	T
TN09-193	-5	2.2	36	2.2	13.9	W	Lt	T
TN13-3519R2	2	2.7	41	2.0	16.5	P	G	Br
TN14-4001	5	3.3	51	2.1	13.4	P	G	T
TN14-4008	1	2.0	30	1.6	13.9	W	T	T
V11-2187	0	2.0	37	1.6	13.2	P	G	T
Mean	-2	2.6	37	2.0	14.4	.	.	.
LSD(0.05)	3	0.6	3	0.6	1.3	.	.	.
CV(%)	132	23.0	9	31.0	10.2	.	.	.

**TABLE 4 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST IV-S-EARLY 2016**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS1	SDS2	SDS	FLS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX	DX	MEAN	SCORE
AG 4232RR2Y	5	2	4	2.8	5.0	MR	2.0	9.4	17.8	13.6	8.0
AG 4135	5	2	5	3.0	5.0	R	1.0	3.3	5.6	4.4	8.0
LD06-7620	5	3	5	5.0	5.0	SS	3.0	22.2	2.5	12.4	8.0
AG 3934RR2	4	3	4	1.3	5.0	MR	2.0	0.0	1.7	0.8	2.0
DS03-14	5	3	5	4.8	5.0	R	1.0	.	20.0	20.0	1.0
DS13-141	5	3	4	2.3	5.0	R	1.0	11.1	10.0	10.6	0.0
S13-1033	5	2	5	5.0	4.0	MS	4.0	1.7	8.3	5.0	8.0
S13-2743	5	3	5	1.3	5.0	R	1.0	8.3	17.8	13.1	2.5
S13-3791	5	2	4	1.8	5.0	S	5.0	15.0	10.0	12.5	0.0
S13-10590	4	2	2	3.0	1.0	R	1.0	5.6	13.3	9.4	1.5
S13-10592	5	3	5	5.0	3.5	R	1.0	26.7	17.8	22.2	0.0
S13-11061	5	2	5	5.0	4.3	MR	2.0	3.3	8.3	5.8	6.0
S13-11733	1	1	1	1.3	1.3	R	1.0	5.8	7.5	6.7	0.5
TN09-193	5	3	4	5.0	5.0	R	1.0	1.7	3.6	2.6	3.0
TN13-3519R2	5	3	5	5.0	5.0	R	1.0	11.1	9.2	10.1	7.5
TN14-4001	5	4	5	4.5	1.8	R	1.0	25.1	36.1	30.6	7.0
TN14-4008	4	1	3	4.0	5.0	MS	4.0	5.8	2.2	4.0	1.5
V11-2187	5	4	5	5.0	5.0	R	1.0	0.0	22.2	11.1	0.5
Mean								12.9	11.0	10.8	3.7
P>F								<.0001	0.009		<.0001
LSD(0.05)								10.5	27.1		2.3

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 5 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN ‡</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS ‡</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	75.8	73.9	46.6	81.4	36.6	39.4	73.5	68.2
AG 4135	76.2	76.3	44.8	88.7	47.1	31.6	70.7	72.0
LD06-7620	74.8	71.1	31.9	68.9	32.0	14.5	49.4	59.2
AG 3934RR2	69.9	70.6	33.9	84.2	37.8	16.3	71.2	66.7
DS03-14	79.4	66.5	39.9	72.4	32.4	27.8	63.6	62.9
DS13-141	57.3	64.0	32.7	70.7	34.7	36.5	63.6	58.1
S13-1033	74.5	77.3	46.8	75.2	41.0	25.4	66.3	66.9
S13-2743	71.7	79.5	47.3	82.9	35.3	23.6	75.3	68.9
S13-3791	74.2	68.6	36.7	82.8	48.4	28.6	69.1	68.6
S13-10590	74.6	83.3	38.6	94.0	46.4	34.4	73.8	74.4
S13-10592	72.8	73.3	39.8	90.3	47.5	44.4	72.3	71.2
S13-11061	64.2	81.0	44.3	88.5	36.4	24.4	67.1	67.4
S13-11733	65.7	75.1	41.6	79.5	41.6	41.9	70.0	66.7
TN09-193	65.8	70.2	31.1	82.6	44.3	21.7	67.3	66.0
TN13-3519R2	63.4	75.3	36.0	79.2	41.4	33.1	74.7	66.8
TN14-4001	54.5	56.0	31.0	57.1	38.0	36.6	43.7	49.9
TN14-4008	56.4	52.4	23.0	61.9	40.4	25.9	38.4	50.0
V11-2187	65.1	73.7	37.7	82.2	45.2	38.7	78.8	69.0
Mean	68.7	71.6	38.0	79.0	40.4	30.3	66.0	65.2
LSD(0.05)	6.8	10.6	10.2	11.1	8.0	10.0	9.8	7.3
CV(%)	5.7	9.0	15.7	8.4	11.9	19.9	8.9	11.5

**TABLE 6 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	9/29	9/10	9/15	9/23	9/4	9/16
AG 4135	-7	-4	-4	-2	-6	-5
LD06-7620	-9	-8	-8	0	-7	-6
AG 3934RR2	-8	-8	-7	-5	-8	-7
DS03-14	-10	-5	-6	-5	-6	-7
DS13-141	-6	-1	-3	-5	-6	-4
S13-1033	-7	-9	-4	-2	-7	-6
S13-2743	-5	-6	-2	-2	-5	-4
S13-3791	0	-1	4	2	2	1
S13-10590	-6	4	-1	0	-1	-1
S13-10592	1	3	0	4	4	2
S13-11061	-3	-8	-5	-1	-6	-4
S13-11733	1	3	5	2	8	4
TN09-193	-7	-8	-4	-1	-4	-5
TN13-3519R2	1	4	-1	3	2	2
TN14-4001	5	3	6	4	9	5
TN14-4008	-3	0	3	1	5	1
V11-2187	0	0	1	-1	2	0
Mean	-4	-2	-2	0	-1	-2
LSD(0.05)	2	4	2	2	1	3
CV(%)	39	103	89	313	44	132



**TABLE 7 - PLANT HEIGHT (INCHES)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	47	34	32	34	34	.	34	36
AG 4135	47	34	29	34	33	.	36	36
LD06-7620	40	31	23	30	25	.	25	29
AG 3934RR2	39	35	25	34	31	.	34	33
DS03-14	47	33	36	33	33	.	38	37
DS13-141	49	42	35	47	34	.	44	42
S13-1033	43	33	31	33	32	.	31	34
S13-2743	46	40	34	43	31	.	40	39
S13-3791	47	34	29	39	33	.	35	36
S13-10590	42	33	27	36	35	.	36	35
S13-10592	44	34	28	32	35	.	38	35
S13-11061	46	36	29	35	32	.	38	36
S13-11733	45	37	29	40	35	.	40	38
TN09-193	44	35	28	40	34	.	35	36
TN13-3519R2	54	42	32	40	38	.	41	41
TN14-4001	61	51	41	52	46	.	58	51
TN14-4008	42	25	28	31	27	.	26	30
V11-2187	48	34	29	38	35	.	37	37
Mean	46	36	30	37	34	.	37	37
LSD(0.05)	4	4	6	3	3	.	5	3
CV(%)	5	7	12	5	6	.	7	9

**TABLE 8 - PLANT LODGING (1-5)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	2.5	2.0	2.3	2.7	2.7	.	3.0	2.5
AG 4135	2.5	2.0	2.0	2.0	2.3	.	3.0	2.3
LD06-7620	1.8	2.3	1.0	3.0	2.0	.	2.0	2.0
AG 3934RR2	2.0	3.0	1.7	2.3	2.0	.	3.0	2.3
DS03-14	3.3	2.7	2.3	3.0	3.0	.	3.0	2.9
DS13-141	2.5	2.3	1.3	2.3	3.0	.	3.0	2.4
S13-1033	3.0	3.7	2.0	3.7	2.3	.	2.7	2.9
S13-2743	2.8	2.0	1.3	3.0	2.3	.	3.0	2.4
S13-3791	2.2	2.3	1.7	3.0	3.0	.	2.7	2.5
S13-10590	2.7	2.0	2.3	3.0	3.0	.	3.0	2.7
S13-10592	2.5	4.0	2.3	3.3	3.7	.	4.7	3.4
S13-11061	2.8	5.0	2.7	3.0	2.3	.	4.3	3.4
S13-11733	2.2	2.0	2.0	3.0	3.0	.	3.0	2.5
TN09-193	2.2	2.0	1.7	2.7	2.3	.	2.3	2.2
TN13-3519R2	2.5	2.7	2.0	3.0	3.0	.	3.0	2.7
TN14-4001	3.3	3.0	2.3	3.0	3.3	.	5.0	3.3
TN14-4008	2.5	1.0	1.7	2.3	2.7	.	2.0	2.0
V11-2187	2.0	1.0	1.7	3.0	2.0	.	2.3	2.0
Mean	2.5	2.5	1.9	2.9	2.7	.	3.1	2.6
LSD(0.05)	0.8	0.8	0.8	0.6	0.7	.	0.6	0.6
CV(%)	20.3	18.1	24.3	12.3	15.3	.	10.9	23.5

**TABLE 9 - SEED QUALITY (1-5)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	1.7	1.0	1.3	1.0	3.0	.	2.0	1.7
AG 4135	2.3	1.0	1.3	2.0	3.0	.	3.0	2.1
LD06-7620	1.5	3.0	1.7	2.0	3.7	.	4.0	2.6
AG 3934RR2	2.0	1.0	2.0	2.0	2.0	.	2.0	1.9
DS03-14	1.5	1.0	1.7	3.0	2.0	.	3.0	2.0
DS13-141	2.0	1.0	1.3	2.0	2.0	.	2.0	1.8
S13-1033	2.2	1.0	1.3	2.0	3.0	.	3.0	2.1
S13-2743	1.5	1.0	1.3	2.0	2.0	.	4.0	1.9
S13-3791	1.5	1.0	1.0	2.3	2.0	.	4.0	1.9
S13-10590	2.2	1.0	1.7	2.0	4.0	.	4.0	2.5
S13-10592	1.8	2.0	1.7	2.7	3.0	.	3.0	2.4
S13-11061	2.0	1.0	1.7	1.7	2.0	.	3.0	1.9
S13-11733	1.2	2.0	2.7	2.3	1.0	.	3.0	2.0
TN09-193	1.8	1.0	2.0	2.0	3.0	.	3.0	2.2
TN13-3519R2	1.8	1.0	1.7	2.7	2.0	.	3.0	2.0
TN14-4001	1.5	3.0	1.3	2.0	2.3	.	3.0	2.1
TN14-4008	1.5	1.0	1.7	1.3	2.0	.	2.0	1.6
V11-2187	1.7	1.0	1.7	2.0	1.3	.	2.0	1.6
Mean	1.8	1.3	1.6	2.1	2.4	.	2.9	2.0
LSD(0.05)	0.4	.	0.9	0.7	0.6	.	.	0.6
CV(%)	15.2	.	35.3	19.9	15.7	.	.	31.0

**TABLE 10 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	14.6	13.3	13.4	13.2	13.3	.	14.1	13.6
AG 4135	15.9	14.6	13.9	14.8	14.2	.	14.5	14.7
LD06-7620	13.5	15.4	14.8	14.8	15.5	.	14.5	14.7
AG 3934RR2	16.2	15.3	15.6	15.3	15.7	.	16.2	15.7
DS03-14	13.2	15.6	14.1	15.3	13.4	.	14.4	14.2
DS13-141	15.8	16.5	14.4	14.3	14.3	.	14.9	14.9
S13-1033	14.2	14.3	14.2	12.5	14.1	.	13.8	13.8
S13-2743	12.9	14.2	13.2	13.6	14.7	.	13.4	13.6
S13-3791	14.9	15.7	14.1	13.5	14.1	.	13.5	14.2
S13-10590	15.6	16.6	14.2	14.1	16.9	.	15.2	15.4
S13-10592	18.6	17.2	14.0	14.8	16.8	.	15.4	16.1
S13-11061	15.7	15.5	14.1	15.0	15.6	.	14.8	15.1
S13-11733	12.7	11.8	16.4	11.9	10.3	.	11.9	12.7
TN09-193	13.1	14.6	16.4	12.3	13.6	.	13.3	13.9
TN13-3519R2	17.2	16.8	16.6	16.0	16.2	.	16.7	16.5
TN14-4001	13.6	12.6	15.1	12.8	12.4	.	13.3	13.4
TN14-4008	13.5	14.4	14.5	14.6	12.8	.	13.6	13.9
V11-2187	12.9	14.8	13.1	12.8	12.4	.	14.4	13.2
Mean	14.7	15.0	14.6	14.0	14.2	.	14.3	14.4
LSD(0.05)	0.8	.	3.9	1.6	1.1	.	.	1.3
CV(%)	3.3	.	16.3	6.7	4.6	.	.	10.2

**TABLE 11 - OIL (%)†**  
**UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	19.2	19.2	20.9	19.2	20.3	.	19.8	19.8
AG 4135	19.4	20.0	.	19.7	20.2	.	20.9	20.2
LD06-7620	19.1	19.0	20.1	18.5	19.0	.	20.5	19.4
AG 3934RR2	19.1	20.0	20.3	.	20.2	.	20.2	19.9
DS03-14	20.3	20.9	20.8	.	19.8	.	21.3	20.5
DS13-141	18.5	18.4	18.9	18.1	19.6	.	19.0	18.8
S13-1033	18.7	19.3	20.8	18.7	20.4	.	20.2	19.7
S13-2743	19.6	20.5	21.6	20.6	20.8	.	21.5	20.8
S13-3791	19.2	19.6	19.9	18.7	20.3	.	19.4	19.5
S13-10590	19.8	20.1	20.2	20.2	20.2	.	21.2	20.3
S13-10592	19.7	20.0	20.4	20.0	20.6	.	20.6	20.2
S13-11061	19.7	20.2	21.0	20.1	20.5	.	20.9	20.4
S13-11733	18.8	19.6	20.7	19.5	19.9	.	19.9	19.7
TN09-193	18.3	18.9	20.6	18.8	19.8	.	19.8	19.4
TN13-3519R2	19.4	20.3	20.4	19.5	20.5	.	20.3	20.1
TN14-4001	17.9	17.5	19.2	17.9	18.8	.	19.0	18.4
TN14-4008	18.9	19.5	21.1	19.8	19.8	.	20.1	19.9
V11-2187	19.4	19.7	.	19.5	20.4	.	19.8	19.9
Mean	19.2	19.6	20.4	19.3	20.1	.	20.2	19.8
LSD	.	.	.	.	.	.	.	0.4
CV	.	.	.	.	.	.	.	1.9

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 12 - PROTEIN (%)†**  
**UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Columbia, MO</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Test Mean</b>
AG 4232RR2Y	34.7	36.9	34.1	34.6	34.6	.	34.3	34.9
AG 4135	36.2	36.7	.	35.6	35.7	.	34.2	35.6
LD06-7620	34.9	37.9	36.0	36.7	37.3	.	37.3	36.7
AG 3934RR2	35.6	36.9	36.5	35.2	35.5	.	35.2	35.8
DS03-14	33.3	35.5	35.4	.	35.8	.	33.9	34.8
DS13-141	36.9	38.8	37.4	36.8	36.5	.	36.2	37.1
S13-1033	35.8	37.1	34.1	35.1	34.9	.	33.9	35.2
S13-2743	35.7	36.7	34.4	34.7	35.3	.	33.6	35.1
S13-3791	34.9	36.2	34.4	35.0	33.9	.	34.4	34.8
S13-10590	34.8	36.4	36.4	35.3	36.3	.	35.1	35.7
S13-10592	36.5	38.6	36.7	35.5	36.4	.	35.0	36.5
S13-11061	35.0	36.2	33.7	33.9	34.3	.	32.5	34.3
S13-11733	34.9	36.9	33.5	35.6	34.2	.	33.8	34.8
TN09-193	35.0	38.0	34.5	34.2	34.8	.	33.7	35.0
TN13-3519R2	35.3	37.0	35.9	35.8	35.1	.	35.1	35.7
TN14-4001	39.1	41.0	37.8	40.5	38.2	.	38.0	39.1
TN14-4008	36.6	38.7	35.9	38.1	37.0	.	36.6	37.2
V11-2187	35.2	38.5	.	35.4	35.2	.	35.6	35.9
Mean	35.6	37.4	35.4	35.8	35.6	.	34.9	35.8
LSD	.	.	.	.	.	.	.	0.8
CV	.	.	.	.	.	.	.	1.9

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 13 - PARENTAGE OF ENTRIES  
UNIFORM GROUP IV-S-LATE 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	Ellis	5002T x 5601T			Conv	
2	AG 4632RR2Y	Commercial check			RR2	
3	AG 4835	Commercial check			RR2	
4	DS46-1	LG01-5087 x DT97-4290	Smith	F5	Conv	Exotic yield
5	R11-328	5601T x R01-1762	Chen	F5	Conv	
6	R12-226	5002T x R04-846	Chen	F5	Conv	
7	R12-712	R01-976 x 5002T	Chen	F5	Conv	
8	R13-1019	R05-4114 x R05-3239	Chen	F4	Conv	
9	R13-13433	R05-235 x S021431C	Chen	F4	Conv	
10	S11-16882	NCC05-1261 x S05-11482	Shannon		Conv	
11	S11-20337	S05-11482 x S06-3095RR	Shannon		RR1	
12	S12-2418	S07-5117 x S08-18569	Shannon		Conv	
13	S12-3782	LD06-7596 x S07-5117	Shannon		Conv	
14	S13-1805	LD07-3419 x S05-11482	Shannon		Conv	
15	S13-3851	S09-9838 x LD05-13265	Shannon		Conv	
16	TN12-5508R2	TN02-226 x MON RR2Y	Pantalone		RR2	
17	TN14-4015	TN09-029 x (17D x S08-14788 #7)	Pantalone		Conv	High Oleic
18	TN14-4425	Holladay x Manokin	Pantalone		Conv	
19	V09-0610	V98-2711 x DP 3519s	Zhang		Conv	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 14 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>RANK</b>	<b>AVG. RANK</b>	<b>YIELD†</b>			<b>PROTEIN‡</b>			<b>OIL‡</b>		
			<b>2016</b>	<b>15-16</b>	<b>14-16</b>	<b>2016</b>	<b>15-16</b>	<b>14-16</b>	<b>2016</b>	<b>15-16</b>	<b>14-16</b>
Ellis	1	7	59.2	60.3	60.3	35.3	35.2	34.9	19.1	18.8	18.9
AG 4632RR2Y	11	9	57.1	59.4	59.4	34.0	34.1	34.2	19.9	19.7	19.7
AG 4835	2	8	59.2	62.3	.	35.3	35.2	.	18.9	18.7	.
DS46-1	16	12	54.0	.	.	36.0	.	.	19.9	.	.
R11-328	4	9	58.0	.	.	36.2	.	.	19.3	.	.
R12-226	7	9	57.4	59.1	.	35.8	35.5	.	19.6	19.3	.
R12-712	6	8	57.5	.	.	38.1	.	.	18.8	.	.
R13-1019	14	11	55.7	.	.	36.1	.	.	18.7	.	.
R13-13433	10	10	57.2	.	.	34.9	.	.	20.3	.	.
S11-16882	17	10	53.4	.	.	35.2	.	.	19.1	.	.
S11-20337	9	9	57.3	60.1	.	36.3	36.0	.	19.3	19.1	.
S12-2418	8	9	57.4	.	.	37.6	.	.	19.3	.	.
S12-3782	15	13	54.3	58.5	.	36.7	36.6	.	19.7	19.5	.
S13-1805	3	7	58.9	.	.	35.8	.	.	19.6	.	.
S13-3851	5	9	57.8	.	.	35.8	.	.	19.9	.	.
TN12-5508R2	13	10	56.6	.	.	33.9	.	.	19.4	.	.
TN14-4015	19	16	48.1	.	.	36.7	.	.	19.8	.	.
TN14-4425	12	9	56.9	.	.	35.4	.	.	20.3	.	.
V09-0610	18	14	53.3	56.1	.	37.0	36.8	.	19.7	19.4	.
Mean	.	.	56.3	.	.	35.9	.	.	19.5	.	.
LSD(0.05)	.	.	4.4	.	.	0.5	.	.	0.3	.	.
CV(%)	.	.	12.9	.	.	1.7	.	.	1.8	.	.

†Data not included in mean: 2016 - Orange, VA; Warsaw, VA  
2015 - Orange, VA; Springfield, TN  
2014 - Carbondale, IL; Orange, VA

‡Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.



**TABLE 15 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LOGGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
Ellis	0	1.6	29	1.4	12.6	W	G	T
AG 4632RR2Y	-4	2.0	37	2.0	14.4	P	G	Br
AG 4835	-3	2.0	40	1.7	12.1	P	G	Br
DS46-1	-5	2.9	44	2.3	15.3	P	T	Br
R11-328	0	1.9	33	1.5	13.5	P	G	T
R12-226	-2	2.5	32	1.5	13.6	W	G	T
R12-712	-2	1.8	29	1.6	14.4	P	G	T
R13-1019	-1	2.2	34	1.3	12.6	P	G	T
R13-13433	-2	2.3	37	1.7	15.1	P	G	T
S11-16882	-4	2.4	33	1.7	12.4	W	G	T
S11-20337	-3	2.4	34	1.8	12.5	P	T	T
S12-2418	-4	2.3	36	2.0	17.1	W	Lt	T
S12-3782	-6	2.5	40	2.4	16.2	W	G	T
S13-1805	-1	2.3	31	2.0	14.4	W	T	T
S13-3851	-6	2.2	34	1.9	15.0	P	Lt	T
TN12-5508R2	-1	2.0	40	1.7	11.9	P	Lt	T
TN14-4015	-4	1.7	26	1.8	13.9	P	T	T
TN14-4425	1	1.8	29	1.9	14.6	W	T	T
V09-0610	-2	1.9	33	1.7	15.3	P	T	T
Mean	-3	2.1	34	1.8	14.1	.	.	.
LSD(0.05)	2	0.4	3	0.4	0.7	.	.	.
CV(%)	109	31.0	12	33.0	6.9	.	.	.

**TABLE 16 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST IV-S-LATE 2016**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS1	SDS2	SDS	FLS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX	DX	MEAN	SCORE
Ellis	5	3	5	2.0	1.0	R	1.0	14.4	5.8	10.1	0.0
AG 4632RR2Y	5	2	5	4.5	5.0	MR	2.0	0.0	16.7	8.3	0.5
AG 4835	5	2	5	2.5	4.8	R	1.0	1.7	0.6	1.1	6.5
DS46-1	5	1	5	5.0	4.8	R	1.0	53.9	25.0	39.4	0.5
R11-328	5	2	5	5.0	4.8	R	1.0	10.0	3.3	6.7	0.0
R12-226	5	2	5	2.0	5.0	R	1.0	25.6	0.3	12.9	3.0
R12-712	5	2	5	1.5	4.8	R	1.0	0.0	13.9	6.9	0.5
R13-1019	5	3	5	4.8	5.0	R	1.0	38.9	20.0	29.4	0.5
R13-13433	5	2	5	4.8	4.0	R	1.0	22.3	25.0	23.6	8.0
S11-16882	3	4	3	1.8	1.0	MS	4.0	15.0	25.0	20.0	0.5
S11-20337	2	1	1	1.3	1.0	MS	4.0	3.9	11.7	7.8	0.0
S12-2418	5	4	4	4.8	5.0	R	1.0	14.2	28.9	21.5	0.0
S12-3782	5	3	5	5.0	5.0	R	1.0	1.7	8.3	5.0	0.5
S13-1805	4	3	2	3.8	1.0	MS	4.0	8.9	17.8	13.3	0.0
S13-3851	4	4	5	1.3	5.0	R	1.0	0.0	0.0	0.0	8.0
TN12-5508R2	1	1	1	4.3	5.0	MS	4.0	0.0	1.7	0.9	4.0
TN14-4015	3	1	4	4.8	5.0	S	5.0	6.7	8.3	7.5	4.0
TN14-4425	4	2	5	4.5	5.0	R	1.0	7.5	15.0	11.3	0.0
V09-0610	4	2	5	5.0	5.0	R	1.0	20.0	24.4	22.2	0.5
Mean								14.0	13.8	13.0	2.3
P>F								<.0001	<.0001		<.0001
LSD(0.05)								13.5	20.7		1.7

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 17 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA ‡</b>	<b>Pittsburg, KS</b>
Ellis	63.8	57.5	57.8	78.3	46.2	51.0	73.6	50.4
AG 4632RR2Y	43.5	40.1	52.1	69.1	40.9	49.3	66.6	59.2
AG 4835	61.4	49.4	55.0	68.6	49.8	52.0	82.3	66.3
DS46-1	51.5	48.7	48.5	70.5	38.6	46.0	64.0	42.0
R11-328	61.2	45.5	59.0	69.0	43.1	51.5	70.7	54.7
R12-226	62.7	46.3	51.2	70.3	51.0	51.1	66.1	49.1
R12-712	54.1	54.0	54.3	77.8	35.0	47.2	63.3	52.3
R13-1019	55.9	60.8	55.1	74.6	33.3	48.4	66.5	56.2
R13-13433	61.1	46.4	52.8	72.6	47.4	46.6	89.0	48.0
S11-16882	57.9	50.4	44.6	60.4	55.0	49.3	66.5	61.8
S11-20337	54.6	59.2	57.8	76.1	37.4	52.1	61.9	58.9
S12-2418	50.8	47.3	57.0	73.7	37.5	37.8	58.9	51.8
S12-3782	52.1	45.9	50.9	76.9	31.6	43.9	57.8	50.7
S13-1805	57.4	53.4	58.3	75.1	37.5	48.9	69.5	59.9
S13-3851	51.0	52.2	56.1	75.4	37.5	44.0	58.7	54.3
TN12-5508R2	49.9	52.6	52.0	73.8	32.9	46.8	73.4	65.8
TN14-4015	39.1	53.0	50.6	59.5	28.2	43.3	47.7	51.2
TN14-4425	62.0	53.2	57.0	78.1	40.9	44.8	67.1	52.4
V09-0610	49.1	38.5	52.6	70.2	40.5	46.9	68.9	46.2
Mean	54.7	50.2	53.8	72.1	40.2	47.4	67.0	54.3
LSD(0.05)	13.9	12.4	5.9	9.0	9.8	5.8	17.4	6.5
CV(%)	15.3	14.9	6.6	7.5	14.7	7.4	15.6	7.2

‡ Data not included in test mean due to CV > 15%.

**TABLE 17 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA ‡</b>	<b>Test Mean</b>
Ellis	76.7	53.0	59.5	45.4	71.8	58.5	32.8	59.2
AG 4632RR2Y	84.9	57.4	59.1	42.7	78.1	65.7	33.1	57.1
AG 4835	82.0	49.4	61.8	48.9	62.5	62.2	33.9	59.2
DS46-1	74.4	56.9	55.0	49.3	56.3	64.0	33.2	54.0
R11-328	75.8	54.7	56.4	44.3	70.2	68.6	36.6	58.0
R12-226	79.5	55.9	53.2	53.1	68.3	54.4	33.6	57.4
R12-712	82.1	53.8	53.5	49.4	72.7	61.2	32.9	57.5
R13-1019	74.2	49.3	58.3	47.1	54.0	56.6	34.8	55.7
R13-13433	78.8	50.7	49.4	51.6	69.9	68.0	33.5	57.2
S11-16882	52.8	50.3	62.1	51.2	55.5	42.4	34.7	53.4
S11-20337	78.1	44.0	62.0	42.4	57.2	65.0	30.9	57.3
S12-2418	87.0	55.0	58.9	44.8	74.5	69.6	28.4	57.4
S12-3782	76.4	46.8	56.0	44.7	68.2	61.3	22.4	54.3
S13-1805	76.1	51.6	61.2	49.8	78.8	57.4	29.7	58.9
S13-3851	90.7	44.7	53.4	49.2	76.0	67.1	25.2	57.8
TN12-5508R2	78.6	50.6	62.0	47.4	58.9	63.9	24.6	56.6
TN14-4015	67.8	48.5	55.1	34.4	53.3	41.1	24.8	48.1
TN14-4425	82.1	47.2	49.8	49.1	63.2	59.7	29.6	56.9
V09-0610	76.4	44.3	52.1	42.3	72.6	61.4	31.8	53.3
Mean	77.6	50.7	56.8	46.7	66.4	60.4	30.9	56.3
LSD(0.05)	10.1	8.0	9.2	8.0	9.7	6.4	8.6	4.4
CV(%)	7.8	9.6	9.8	10.4	8.9	6.4	16.8	12.9

‡ Data not included in test mean due to CV > 15%.

**TABLE 18 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>
Ellis	9/29	10/12	9/28	9/16	10/17	9/26	10/3	9/27
AG 4632RR2Y	-2	-3	1	0	-3	-4	-5	-3
AG 4835	-1	-1	3	5	-2	-3	-1	-3
DS46-1	-1	-2	2	-2	-3	-4	-5	0
R11-328	-4	0	1	4	-1	-1	1	0
R12-226	-2	-2	-1	0	1	-1	1	-1
R12-712	-4	0	0	-1	-2	-1	1	-2
R13-1019	-2	1	-1	2	0	-1	0	-1
R13-13433	-5	-3	-1	2	-1	-2	-2	-1
S11-16882	-5	-1	-5	0	-1	-4	-2	0
S11-20337	-2	-1	-2	0	-2	-2	-5	0
S12-2418	0	0	1	-1	-3	-2	-4	0
S12-3782	-1	-2	2	-1	-3	-5	-5	-2
S13-1805	-3	0	0	-1	-1	-2	-2	-1
S13-3851	-1	-2	-2	-1	-3	-7	-6	-3
TN12-5508R2	1	2	1	0	-3	-2	0	4
TN14-4015	-3	-1	-4	-1	-1	-2	-4	-2
TN14-4425	1	1	3	2	-1	3	0	-1
V09-0610	-2	1	-1	0	-2	-1	-4	-3
Mean	-2	-1	0	0	-2	-2	-2	-1
LSD(0.05)	3	3	3	2	2	1	2	3
CV(%)	91	297	1457	382	71	29	49	182

**TABLE 18 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	9/19	9/29	10/14	10/1
AG 4632RR2Y	-6	-12	-4	-4
AG 4835	-6	-18	-2	-3
DS46-1	-10	-15	-11	-5
R11-328	-2	-2	-1	0
R12-226	-2	-9	-3	-2
R12-712	-2	-4	-4	-2
R13-1019	-2	-6	0	-1
R13-13433	-2	-10	-2	-2
S11-16882	-9	-16	-4	-4
S11-20337	-2	-8	-6	-3
S12-2418	-10	-13	-11	-4
S12-3782	-10	-17	-16	-6
S13-1805	-2	0	-2	-1
S13-3851	-10	-18	-8	-6
TN12-5508R2	-2	-13	-4	-1
TN14-4015	-7	-8	-6	-4
TN14-4425	1	0	-3	1
V09-0610	-2	-7	-5	-2
Mean	-4	-9	-5	-3
LSD(0.05)	1	3	2	2
CV(%)	14	21	28	109

**TABLE 19 - PLANT HEIGHT (INCHES)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	22	33	29	27	32	30	36	35
AG 4632RR2Y	35	42	38	39	31	31	41	45
AG 4835	39	45	46	43	33	34	44	45
DS46-1	47	46	52	48	36	36	46	44
R11-328	27	41	37	33	34	34	40	40
R12-226	24	36	35	32	37	30	37	38
R12-712	19	33	30	27	29	29	37	36
R13-1019	28	38	37	31	36	34	38	43
R13-13433	35	44	40	37	38	35	42	41
S11-16882	30	32	35	29	43	37	39	39
S11-20337	30	39	41	32	35	35	37	42
S12-2418	33	43	41	36	29	31	38	39
S12-3782	42	47	46	42	33	32	40	43
S13-1805	27	35	32	30	34	34	38	40
S13-3851	33	36	38	37	26	26	38	37
TN12-5508R2	42	44	45	46	32	33	42	47
TN14-4015	19	32	26	24	27	27	32	34
TN14-4425	24	35	33	28	33	29	36	32
V09-0610	25	40	37	30	34	31	41	41
Mean	31	39	38	34	33	32	39	40
LSD(0.05)	4	6	4	4	4	5	5	5
CV(%)	8	10	7	6	6	10	8	8

**TABLE 19 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	29	24	30	.	31	14	27	29
AG 4632RR2Y	42	32	46	.	34	35	29	37
AG 4835	47	33	49	.	38	39	30	40
DS46-1	49	41	51	.	50	45	29	44
R11-328	31	26	38	.	35	21	29	33
R12-226	31	27	38	.	34	25	29	32
R12-712	30	28	32	.	28	15	25	29
R13-1019	30	28	40	.	36	21	31	34
R13-13433	34	31	41	.	38	34	30	37
S11-16882	29	27	35	.	33	20	30	33
S11-20337	33	28	41	.	36	21	27	34
S12-2418	39	33	45	.	36	32	26	36
S12-3782	45	35	49	.	37	39	26	40
S13-1805	29	26	36	.	33	20	26	31
S13-3851	38	31	43	.	36	33	24	34
TN12-5508R2	45	38	48	.	37	41	26	40
TN14-4015	27	25	30	.	24	14	22	26
TN14-4425	29	22	30	.	31	17	25	29
V09-0610	34	28	37	.	33	20	27	33
Mean	35	30	40	.	35	27	27	34
LSD(0.05)	4	4	4	.	3	4	4	3
CV(%)	7	8	6	.	5	9	9	12



**TABLE 20 - PLANT LODGING (1-5)  
UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	1.0	4.7	1.0	1.0	2.0	1.0	1.0	1.0
AG 4632RR2Y	1.0	4.7	1.7	2.0	2.0	1.0	1.3	2.0
AG 4835	1.0	3.7	2.3	2.3	1.7	1.0	1.0	1.7
DS46-1	4.0	5.0	4.0	3.0	1.3	1.0	1.0	3.7
R11-328	1.0	4.3	2.0	2.0	1.7	1.0	1.3	2.0
R12-226	1.0	5.0	3.3	1.3	3.3	2.0	2.7	4.0
R12-712	1.0	4.3	1.0	1.0	1.3	1.0	2.0	2.7
R13-1019	1.0	5.0	2.3	1.0	2.3	1.0	3.3	2.3
R13-13433	1.0	4.7	3.7	1.3	2.7	1.0	2.3	2.3
S11-16882	1.0	5.0	3.0	1.0	3.7	1.7	3.0	3.3
S11-20337	1.0	5.0	3.0	1.0	3.0	1.7	3.0	3.3
S12-2418	1.0	5.0	2.3	2.7	2.0	1.0	2.0	2.0
S12-3782	1.7	5.0	3.7	3.0	1.7	1.0	1.3	2.3
S13-1805	1.0	5.0	2.3	1.0	2.7	1.0	3.3	2.3
S13-3851	1.0	4.3	4.0	3.3	1.7	1.0	2.0	1.7
TN12-5508R2	1.0	4.7	2.3	1.7	1.3	1.0	1.0	1.7
TN14-4015	1.0	4.7	1.0	1.0	1.3	1.0	1.7	2.7
TN14-4425	1.0	5.0	1.7	1.0	1.7	1.3	2.0	2.5
V09-0610	1.0	5.0	1.7	1.0	2.0	1.0	2.3	2.7
Mean	1.2	4.7	2.4	1.7	2.1	1.1	2.0	2.4
LSD(0.05)	0.6	0.8	0.9	0.9	0.9	0.5	1.2	1.1
CV(%)	28.7	9.7	21.9	33.7	24.8	27.1	37.1	28.0

**TABLE 20 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	2.0	2.3	1.0	.	2.0	1.0	1.2	1.6
AG 4632RR2Y	3.0	2.7	1.0	.	2.7	2.0	1.2	2.0
AG 4835	3.0	2.7	1.0	.	2.7	2.3	1.2	2.0
DS46-1	4.0	3.0	1.3	.	4.3	3.3	1.4	2.9
R11-328	2.7	2.7	1.0	.	2.0	1.3	1.4	1.9
R12-226	2.3	3.0	1.7	.	2.0	2.0	1.9	2.5
R12-712	2.0	3.0	1.0	.	2.0	1.0	1.3	1.8
R13-1019	2.7	2.7	1.8	.	2.0	1.7	1.5	2.2
R13-13433	2.7	3.0	1.0	.	2.7	2.3	1.4	2.3
S11-16882	2.3	3.0	1.5	.	2.7	1.3	1.7	2.4
S11-20337	2.7	3.0	1.5	.	2.3	2.0	1.5	2.4
S12-2418	3.0	3.0	1.0	.	3.0	2.7	1.3	2.3
S12-3782	3.0	3.0	1.3	.	3.7	3.0	1.1	2.5
S13-1805	2.7	3.0	1.0	.	3.0	2.0	1.4	2.3
S13-3851	3.0	3.0	1.0	.	2.0	2.0	1.2	2.2
TN12-5508R2	3.0	3.0	1.0	.	2.3	2.0	1.3	2.0
TN14-4015	2.0	2.0	1.0	.	2.0	1.3	1.2	1.7
TN14-4425	2.0	2.0	1.2	.	2.0	1.0	1.1	1.8
V09-0610	2.0	2.3	1.0	.	2.0	1.0	1.2	1.9
Mean	2.6	2.8	1.2	.	2.5	1.9	1.3	2.1
LSD(0.05)	0.5	0.5	0.7	.	0.6	0.6	0.3	0.4
CV(%)	11.5	11.7	35.7	.	13.4	18.7	13.4	31.0

**TABLE 21 - SEED QUALITY (1-5)  
UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	2.0	.	1.0	1.0	1.0	2.0	1.0	1.0
AG 4632RR2Y	2.0	.	1.7	1.0	2.0	2.0	1.7	1.0
AG 4835	2.0	.	1.0	1.0	2.0	2.0	1.0	1.0
DS46-1	1.0	.	3.0	2.0	2.0	2.0	1.0	3.0
R11-328	1.0	.	1.7	2.0	1.0	1.0	1.0	2.0
R12-226	1.0	.	1.0	1.0	1.3	2.0	2.0	2.0
R12-712	1.0	.	1.3	1.0	1.3	1.0	1.3	2.0
R13-1019	2.0	.	1.0	1.0	1.0	1.0	1.0	2.0
R13-13433	1.0	.	1.7	1.0	1.3	2.0	1.0	3.0
S11-16882	1.0	.	1.0	1.0	1.7	2.0	1.0	2.0
S11-20337	1.0	.	1.0	2.0	2.0	1.0	1.3	3.0
S12-2418	2.0	.	2.0	1.0	2.3	3.0	1.0	2.0
S12-3782	2.0	.	1.7	2.0	2.7	2.0	1.7	2.0
S13-1805	2.0	.	1.3	1.0	1.0	3.0	1.0	2.0
S13-3851	2.0	.	1.0	1.0	2.0	2.0	1.7	2.0
TN12-5508R2	1.0	.	1.0	1.0	1.0	1.0	1.0	3.0
TN14-4015	2.0	.	1.0	1.0	1.7	2.0	1.0	2.0
TN14-4425	1.0	.	1.3	1.0	2.0	2.0	1.0	3.0
V09-0610	1.0	.	1.7	1.0	1.0	1.0	1.0	2.0
Mean	1.5	.	1.4	1.2	1.6	1.8	1.2	2.1
LSD(0.05)	.	.	0.6	.	0.5	.	0.6	.
CV(%)	.	.	25.4	.	19.2	0.0	31.4	.

**TABLE 21 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	1.3	1.0	1.0	.	2.0	1.0	2.8	1.4
AG 4632RR2Y	2.0	2.0	1.3	.	3.0	2.0	4.1	2.0
AG 4835	1.3	3.0	1.0	.	2.0	1.0	3.3	1.7
DS46-1	3.0	2.0	2.0	.	2.0	3.0	3.8	2.3
R11-328	1.0	1.0	1.0	.	2.0	3.0	2.2	1.5
R12-226	1.3	1.0	1.0	.	2.0	1.0	2.2	1.5
R12-712	1.3	2.3	1.7	.	2.0	2.0	2.7	1.6
R13-1019	1.0	1.0	1.0	.	2.0	1.0	2.2	1.3
R13-13433	2.3	1.7	1.3	.	2.0	.	1.9	1.7
S11-16882	2.0	1.0	1.3	.	3.0	1.0	3.8	1.7
S11-20337	1.0	2.7	1.3	.	3.0	1.0	3.3	1.8
S12-2418	1.7	1.0	1.0	.	3.0	2.0	4.2	2.0
S12-3782	3.0	2.7	1.3	.	4.0	3.0	3.9	2.4
S13-1805	3.0	2.0	1.7	.	3.0	2.0	3.3	2.0
S13-3851	1.7	1.0	1.0	.	3.0	2.0	4.3	1.9
TN12-5508R2	1.0	2.0	1.3	.	3.0	2.0	3.8	1.7
TN14-4015	2.3	1.7	1.7	.	3.0	2.0	2.1	1.8
TN14-4425	2.7	1.7	1.3	.	3.0	2.0	3.1	1.9
V09-0610	2.7	1.0	1.7	.	3.0	3.0	2.4	1.7
Mean	1.9	1.7	1.3	.	2.6	1.9	3.1	1.8
LSD(0.05)	0.6	0.5	0.7	.	.	.	0.5	0.4
CV(%)	20.6	19.5	33.4	.	.	.	9.9	32.6

**TABLE 22 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	15.4	.	12.2	11.6	12.3	14.4	12.3	12.0
AG 4632RR2Y	16.3	.	13.8	13.0	16.8	17.2	13.7	15.1
AG 4835	14.5	.	12.0	10.4	13.3	15.1	13.3	13.1
DS46-1	18.1	.	14.8	14.9	16.1	17.6	15.3	16.7
R11-328	16.3	.	13.7	13.8	13.4	14.1	14.3	13.1
R12-226	18.1	.	12.4	13.5	13.5	15.5	14.3	13.7
R12-712	18.1	.	13.0	14.0	14.5	16.5	14.7	14.8
R13-1019	15.4	.	12.2	12.1	12.3	13.3	13.0	12.9
R13-13433	16.3	.	15.2	14.2	16.4	16.8	17.0	16.4
S11-16882	14.5	.	11.4	12.3	12.9	15.4	12.7	13.9
S11-20337	14.5	.	11.8	12.2	12.3	13.3	13.3	13.5
S12-2418	20.9	.	16.9	17.5	18.3	19.9	16.7	20.3
S12-3782	20.0	.	15.3	17.4	17.7	18.7	16.7	17.8
S13-1805	16.3	.	13.6	15.2	14.4	16.3	15.3	16.1
S13-3851	18.1	.	15.1	14.1	18.6	15.5	14.0	17.0
TN12-5508R2	13.6	.	11.5	11.0	12.2	13.1	12.7	13.0
TN14-4015	17.2	.	12.8	13.8	13.1	16.0	14.0	13.9
TN14-4425	17.2	.	14.5	14.3	13.2	16.7	15.3	14.5
V09-0610	20.0	.	15.5	15.0	15.0	16.8	17.0	15.6
Mean	16.9	.	13.6	13.7	14.5	15.9	14.5	14.9
LSD(0.05)	.	.	0.8	.	1.1	.	1.7	.
CV(%)	.	.	3.5	.	4.4	0.0	7.0	.

**TABLE 22 - SEED SIZE (GRAMS PER 100 SEED) (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	12.9	11.5	12.9	.	12.3	13.6	10.2	12.6
AG 4632RR2Y	14.1	13.5	12.5	.	15.2	12.4	12.6	14.4
AG 4835	10.6	11.2	10.9	.	11.1	9.5	11.3	12.1
DS46-1	15.2	14.4	13.7	.	15.9	14.5	12.2	15.3
R11-328	13.4	12.7	12.4	.	13.4	13.4	11.4	13.5
R12-226	13.4	12.9	12.1	.	12.8	13.0	11.3	13.6
R12-712	14.7	13.3	12.7	.	13.7	16.3	11.3	14.4
R13-1019	13.2	11.2	11.8	.	12.4	13.1	10.4	12.6
R13-13433	15.7	13.0	12.5	.	14.2	.	13.3	15.1
S11-16882	11.8	11.6	11.2	.	11.5	12.0	9.9	12.4
S11-20337	13.3	10.6	11.7	.	12.4	14.0	9.6	12.5
S12-2418	16.3	16.5	14.4	.	17.1	14.8	13.5	17.1
S12-3782	15.7	15.6	13.7	.	16.2	13.9	12.9	16.2
S13-1805	14.3	13.9	12.6	.	14.2	14.7	11.3	14.4
S13-3851	14.4	15.0	12.8	.	14.6	14.0	12.4	15.0
TN12-5508R2	11.2	11.3	10.5	.	12.2	11.9	10.5	11.9
TN14-4015	16.0	12.7	13.8	.	13.4	14.0	10.3	13.9
TN14-4425	15.9	13.0	13.7	.	14.4	16.6	11.2	14.6
V09-0610	15.2	14.0	12.7	.	15.8	15.1	12.2	15.3
Mean	14.1	13.1	12.6	.	13.8	13.7	11.5	14.1
LSD(0.05)	0.8	0.8	1.1	.	.	.	0.5	0.7
CV(%)	3.4	3.8	5.4	.	.	.	2.8	6.9

**TABLE 23 - OIL (%)†**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	.	.	19.0	18.4	20.3	18.2	.	18.7
AG 4632RR2Y	.	.	20.9	20.0	20.1	18.8	.	19.3
AG 4835	.	.	19.2	18.4	19.4	18.8	.	18.6
DS46-1	.	.	19.8	19.5	20.4	18.6	.	18.9
R11-328	.	.	19.6	18.5	20.5	18.1	.	18.3
R12-226	.	.	20.1	18.8	20.8	18.3	.	18.9
R12-712	.	.	19.3	18.8	20.1	17.5	.	18.3
R13-1019	.	.	18.7	18.3	19.9	18.0	.	18.0
R13-13433	.	.	20.6	.	21.6	19.1	.	19.2
S11-16882	.	.	19.8	18.8	20.5	17.6	.	18.2
S11-20337	.	.	19.7	18.8	21.0	18.1	.	19.3
S12-2418	.	.	19.7	19.1	19.5	18.6	.	19.1
S12-3782	.	.	20.1	19.6	20.1	18.9	.	19.1
S13-1805	.	.	19.5	19.1	21.2	18.2	.	20.0
S13-3851	.	.	20.2	19.0	20.4	19.3	.	19.6
TN12-5508R2	.	.	19.9	19.4	20.1	18.5	.	19.2
TN14-4015	.	.	20.2	19.6	20.8	19.0	.	19.7
TN14-4425	.	.	20.7	20.0	21.3	19.2	.	19.4
V09-0610	.	.	20.0	19.5	21.2	18.5	.	19.5
Mean	.	.	19.8	19.1	20.5	18.5	.	19.0
LSD	.	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 23 - OIL (%)† (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	18.9	19.5	19.3	.	19.4	18.9	19.3	19.1
AG 4632RR2Y	19.5	20.7	20.2	.	19.8	19.8	20.2	19.9
AG 4835	18.2	19.6	19.0	.	18.4	18.1	19.8	18.9
DS46-1	20.2	20.6	20.1	.	20.2	20.2	20.3	19.9
R11-328	18.9	20.1	19.2	.	19.3	20.0	19.6	19.3
R12-226	19.6	20.1	19.3	.	19.9	19.5	19.9	19.6
R12-712	18.5	19.6	18.9	.	18.9	18.4	19.0	18.8
R13-1019	18.4	19.2	18.7	.	19.0	18.5	19.0	18.7
R13-13433	20.4	20.8	20.0	.	20.0	.	20.6	20.2
S11-16882	18.8	19.8	18.5	.	19.6	18.9	19.3	19.1
S11-20337	19.1	19.0	19.3	.	19.5	19.0	19.5	19.3
S12-2418	19.2	19.6	19.2	.	19.8	19.1	19.6	19.3
S12-3782	19.3	20.0	20.0	.	19.9	19.5	20.2	19.7
S13-1805	19.4	20.1	19.5	.	19.6	19.5	19.9	19.6
S13-3851	19.9	19.9	19.4	.	20.8	19.3	20.8	19.9
TN12-5508R2	18.9	19.8	19.5	.	19.2	19.6	19.8	19.4
TN14-4015	19.5	19.4	20.1	.	20.0	19.6	19.4	19.8
TN14-4425	20.3	20.7	20.5	.	20.8	20.4	20.2	20.3
V09-0610	19.3	20.1	19.7	.	19.6	19.5	19.5	19.7
Mean	19.3	19.9	19.5	.	19.7	19.3	19.8	19.5
LSD	.	.	.	.	.	.	.	0.3
CV	.	.	.	.	.	.	.	1.8



**TABLE 24 - PROTEIN (%)†**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Bossier City, LA</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>	<b>Pittsburg, KS</b>
Ellis	.	.	36.5	36.5	34.9	35.7	.	35.0
AG 4632RR2Y	.	.	33.7	35.1	34.9	34.8	.	34.1
AG 4835	.	.	35.7	36.6	35.7	34.9	.	35.3
DS46-1	.	.	36.9	38.6	35.3	36.8	.	36.6
R11-328	.	.	37.3	38.5	35.7	37.2	.	36.7
R12-226	.	.	36.7	37.7	34.3	36.7	.	35.7
R12-712	.	.	38.6	39.0	38.0	39.0	.	38.1
R13-1019	.	.	37.0	37.3	35.5	35.9	.	36.5
R13-13433	.	.	35.9	.	33.7	35.8	.	35.9
S11-16882	.	.	35.3	36.6	33.7	35.4	.	35.2
S11-20337	.	.	37.0	38.4	34.0	36.8	.	34.9
S12-2418	.	.	38.1	38.4	37.5	38.1	.	37.8
S12-3782	.	.	36.8	38.7	36.4	36.8	.	36.8
S13-1805	.	.	36.9	37.7	34.7	36.1	.	34.6
S13-3851	.	.	36.7	37.6	36.1	35.6	.	35.9
TN12-5508R2	.	.	34.4	35.4	34.1	33.7	.	32.9
TN14-4015	.	.	36.9	37.8	36.2	36.5	.	36.1
TN14-4425	.	.	36.3	36.7	34.4	35.6	.	35.4
V09-0610	.	.	38.2	38.0	36.0	37.4	.	36.4
Mean	.	.	36.6	37.5	35.3	36.3	.	35.8
LSD	.	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 24 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	35.9	34.6	35.7	.	34.9	35.2	33.1	35.3
AG 4632RR2Y	33.4	33.3	34.0	.	33.7	34.1	33.4	34.0
AG 4835	35.3	34.7	35.6	.	35.0	35.7	33.4	35.3
DS46-1	35.1	34.3	35.6	.	35.3	36.2	35.2	36.0
R11-328	36.8	35.0	36.8	.	36.1	34.4	33.8	36.2
R12-226	36.1	34.7	36.8	.	35.7	36.9	32.9	35.8
R12-712	38.4	36.7	38.8	.	37.9	39.1	35.7	38.1
R13-1019	36.8	34.7	36.7	.	36.0	36.9	33.8	36.1
R13-13433	35.4	33.8	35.6	.	35.4	.	32.5	35.1
S11-16882	36.3	34.1	36.1	.	34.9	36.7	33.0	35.2
S11-20337	37.0	36.4	36.4	.	36.5	37.3	34.3	36.3
S12-2418	38.1	36.9	37.8	.	36.1	38.0	36.6	37.6
S12-3782	37.2	35.7	36.3	.	35.6	38.1	35.8	36.7
S13-1805	36.5	35.2	35.8	.	35.9	37.1	33.1	35.8
S13-3851	35.0	35.5	37.2	.	33.8	36.2	34.5	35.8
TN12-5508R2	34.7	33.1	33.5	.	34.5	34.4	32.0	33.9
TN14-4015	37.8	36.4	36.6	.	37.0	37.0	35.2	36.7
TN14-4425	36.3	34.4	35.4	.	35.8	36.0	33.2	35.4
V09-0610	36.9	36.0	37.3	.	37.3	37.5	35.7	37.0
Mean	36.3	35.0	36.2	.	35.7	36.5	34.1	35.9
LSD	.	.	.	.	.	.	.	0.5
CV	.	.	.	.	.	.	.	1.7

**TABLE 25 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AG 4232RR2Y	Commercial check			RR2	
2	AG 4135	Commercial check			RR2	
3	LD06-7620	IA3023 x LD00-3309			Conv	
4	AG 3934RR2	Commercial check			RR2	
5	DS14-341	L86-1752 x GC84058-18-4	Smith	F8	Conv	SR
6	DS612-42	LG01-5087-101 x PI 587886	Smith	F5	Conv	SR
7	S14-8943	LD07-3419 x S08-9727RR1	Shannon		RR1	
8	S14-9051	LD07-3419 x S08-9727RR1	Shannon		RR1	
9	S14-9412	S08-9727RR1 x S08-8440RR1	Shannon		RR1	
10	S14-14286	S09-10871 x S08-164 F1	Shannon		RR1	
11	S14-14328	S09-10871 x S08-164 F1	Shannon		RR1	
12	S14-15146	S09-10871 x S08-9727RR1	Shannon		RR1	
13	S14-15176	S09-10871 x S08-9727RR1	Shannon		RR1	
14	SA10-8471	LG04-6000 x LD04-5907	Scaboo	F4	Conv	
15	SA12-1451	CL06-121119 x S07-5117	Scaboo	F4	Conv	
16	SA12-1455	CL06-121119 x S07-5117	Scaboo	F4	Conv	
17	SA12-1471	CL06-121119 x S07-5117	Scaboo	F4	Conv	
18	TN13-4301	Reselection of LG01-3733 = (F3:5 Rend x LG97-9301)	Pantalone		Conv	Diversity
19	TN15-4507	TN09-46,128 x TN11-20133	Pantalone		RR1	
20	TN15-4546	TN02-226 x MON RR2Y	Pantalone		RR2	
21	TNLR-05	TN10-4037 x NC-Raleigh x (NC-Burton x (PI603452 x PI283327))	Pantalone		Conv	High Oleic
22	TNLR-10	TN10-4037 x NC-Raleigh x (NC-Burton x (PI603452 x PI283327))	Pantalone		Conv	High Oleic
23	V12-2259	LG04-6000 x JTN 5503	Zhang		Conv	
24	V12-2294	LG04-6000 x JTN 5503	Zhang		Conv	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®  
‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst  
nematode resistance, and STS = sulfonyleurea tolerant

**TABLE 26 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST IV-S-EARLY 2016**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK					Race 2	Race 3	Race 5		
AG 4232RR2Y	63.0	10	9	0	2.3	39	4	4	5	MR	2
AG 4135	63.5	7	8	-3	2.1	38	4	4	5	R	1
LD06-7620	51.7	22	18	-5	1.9	33	4	2	5	SS	3
AG 3934RR2	55.0	20	17	-5	2.1	35	4	2	4	MR	2
DS14-341	40.1	24	23	-4	3.9	39	4	5	5	S	5
DS612-42	44.2	23	22	1	3.0	42	4	5	5	R	1
S14-8943	61.9	13	11	-1	2.7	37	5	3	5	R	1
S14-9051	66.0	2	6	3	2.6	36	3	1	2	R	1
S14-9412	64.6	4	7	3	2.3	41	3	5	5	R	1
S14-14286	63.2	8	10	2	2.5	40	4	3	5	R	1
S14-14328	63.6	6	11	3	2.6	39	5	3	5	R	1
S14-15146	66.4	1	6	3	2.4	38	4	4	5	R	1
S14-15176	63.1	9	9	3	2.2	39	5	3	4	R	1
SA10-8471	61.6	14	12	-3	2.4	38	5	4	5	R	1
SA12-1451	63.0	11	9	-2	1.9	31	3	3	5	R	1
SA12-1455	62.8	12	11	-4	1.5	31	3	2	4	R	1
SA12-1471	63.9	5	8	-3	2.6	40	4	2	4	R	1
TN13-4301	55.7	19	17	-3	2.6	39	4	3	4	MR	2
TN15-4507	55.8	18	16	6	2.4	33	5	4	5	SS	3
TN15-4546	65.7	3	8	6	2.3	44	1	1	1	S	5
TNLR-05	52.0	21	17	-3	2.5	37	4	2	3	R	1
TNLR-10	57.4	17	16	-3	2.5	40	4	2	4	R	1
V12-2259	57.6	16	16	-1	1.9	36	4	4	4	R	1
V12-2294	57.6	15	16	0	1.9	36	4	3	5	R	1
Mean	59.1	.	.	0	2.4	37	.	.	.	.	.
LSD(0.05)	5.7	.	.	2	.	2	.	.	.	.	.
CV(%)	13.2	.	.	583	.	8	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.

**TABLE 26 - GENERAL SUMMARY OF PERFORMANCE (continued)  
PRELIMINARY TEST IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AG 4232RR2Y	1.6	13.3	34.9	19.8	P	G	T
AG 4135	1.7	14.5	35.8	20.2	W	G	Br
LD06-7620	2.3	13.5	36.1	19.6	P	G	Br
AG 3934RR2	2.1	15.2	35.9	20.0	P	G	Br
DS14-341	1.5	15.4	37.5	19.6	W	T	T
DS612-42	1.7	12.4	35.7	19.5	P	G	Br
S14-8943	2.0	13.2	34.3	20.9	W	G	T
S14-9051	2.2	13.8	33.5	21.2	W	G	T
S14-9412	1.4	13.4	35.7	20.6	W	G	T
S14-14286	1.6	13.3	36.2	19.0	W	G	T
S14-14328	1.5	13.0	35.9	19.4	W	G	T
S14-15146	1.5	13.9	35.1	20.4	W	T	T
S14-15176	1.8	14.9	35.8	20.3	W	T	T
SA10-8471	1.9	13.4	34.7	20.5	W	G	T
SA12-1451	1.8	11.7	36.5	19.6	P	G	Br
SA12-1455	2.0	15.2	36.7	20.1	W	T	Br
SA12-1471	1.9	14.7	36.4	19.8	P	T	Br
TN13-4301	1.8	13.2	35.8	19.8	W	G	T
TN15-4507	1.6	11.9	39.0	17.3	P	G	T
TN15-4546	1.6	12.2	33.8	19.8	P	Lt	T
TNLR-05	2.2	12.8	36.5	20.4	W	G	Br
TNLR-10	1.9	13.4	37.5	20.1	W	G	Br
V12-2259	1.8	12.8	36.7	20.4	P	T	T
V12-2294	1.5	13.2	37.7	20.2	P	T	T
Mean	1.8	13.5	36.0	19.9	.	.	.
LSD(0.05)	0.4	0.7	0.6	0.4	.	.	.
CV(%)	27.6	6.1	1.8	1.8	.	.	.

**TABLE 27 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	49.9	74.2	66.1	69.9	58.1	41.5	63.0
AG 4135	45.8	82.4	66.0	79.8	45.8	37.0	68.0
LD06-7620	37.7	71.8	60.9	61.6	27.0	25.8	54.2
AG 3934RR2	46.6	72.7	43.6	56.3	33.0	50.2	66.7
DS14-341	31.3	48.8	37.2	41.2	35.3	40.7	39.6
DS612-42	36.5	50.7	48.6	37.4	42.0	35.2	49.4
S14-8943	50.5	81.7	57.7	60.8	41.8	58.6	66.6
S14-9051	50.2	77.1	64.5	70.3	46.8	69.1	68.3
S14-9412	47.8	75.7	58.8	77.0	46.2	62.3	66.5
S14-14286	48.9	71.3	59.3	77.0	51.0	57.0	62.7
S14-14328	42.0	68.5	57.0	71.4	43.6	70.2	63.6
S14-15146	55.4	74.0	61.7	71.8	50.1	69.4	66.0
S14-15176	45.9	73.5	61.2	73.0	47.3	54.1	64.1
SA10-8471	40.9	69.8	53.8	64.5	47.5	69.8	62.6
SA12-1451	49.0	79.4	65.5	75.7	46.0	47.6	61.9
SA12-1455	49.7	76.5	55.4	72.9	43.4	68.2	66.6
SA12-1471	54.6	72.7	61.5	71.8	42.6	59.1	65.1
TN13-4301	45.6	64.9	57.1	64.4	41.8	46.7	61.6
TN15-4507	51.9	64.8	48.7	66.4	39.0	64.3	37.8
TN15-4546	50.9	75.7	57.1	73.5	53.9	81.4	60.0
TNLR-05	52.0	70.0	47.4	49.9	32.7	54.2	65.4
TNLR-10	47.2	72.2	57.1	68.3	33.8	52.7	63.7
V12-2259	45.1	65.0	53.1	72.0	38.0	55.6	52.8
V12-2294	45.9	66.8	49.4	67.3	38.3	50.7	59.3
Mean	46.7	70.9	56.2	66.4	42.7	55.0	60.6
LSD(0.05)	15.2	8.6	12.6	14.4	14.2	16.1	9.3
CV(%)	15.3	5.8	10.8	10.5	15.4	14.2	7.4

**TABLE 27 - SEED YIELD (BUSHEL PER ACRE) (continued)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	60.9	79.4	67.2	63.0
AG 4135	70.5	69.8	69.5	63.5
LD06-7620	64.9	49.2	64.1	51.7
AG 3934RR2	59.0	61.8	59.8	55.0
DS14-341	53.5	40.6	32.9	40.1
DS612-42	54.9	42.5	44.2	44.2
S14-8943	72.8	67.4	61.1	61.9
S14-9051	77.4	70.4	65.4	66.0
S14-9412	78.0	72.0	62.1	64.6
S14-14286	76.4	66.5	62.2	63.2
S14-14328	84.0	72.9	61.2	63.6
S14-15146	77.3	68.9	69.7	66.4
S14-15176	76.4	68.3	65.2	63.1
SA10-8471	78.7	63.3	65.1	61.6
SA12-1451	74.8	70.5	59.5	63.0
SA12-1455	71.0	66.0	58.5	62.8
SA12-1471	80.7	67.6	63.1	63.9
TN13-4301	69.9	44.5	60.1	55.7
TN15-4507	72.3	67.5	45.6	55.8
TN15-4546	78.6	64.5	61.5	65.7
TNLR-05	68.1	43.6	36.5	52.0
TNLR-10	63.8	58.5	56.8	57.4
V12-2259	69.3	62.4	62.4	57.6
V12-2294	73.2	70.2	55.3	57.6
Mean	71.1	62.8	58.7	59.1
LSD(0.05)	15.2	11.8	9.4	5.7
CV(%)	10.3	9.1	7.8	13.2

**TABLE 28 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	10/9	9/29	9/23	.	9/12	.	9/19
AG 4135	-4	-6	-6	.	-2	.	-1
LD06-7620	-3	-9	-8	.	-8	.	-4
AG 3934RR2	-5	-7	-10	.	-8	.	-3
DS14-341	-2	-6	-9	.	-2	.	-2
DS612-42	-5	0	2	.	3	.	-1
S14-8943	1	-6	0	.	-1	.	-1
S14-9051	0	1	4	.	0	.	4
S14-9412	-2	3	2	.	4	.	6
S14-14286	-1	3	4	.	0	.	2
S14-14328	-5	5	2	.	1	.	6
S14-15146	4	1	4	.	5	.	2
S14-15176	5	1	4	.	5	.	4
SA10-8471	-1	-6	-9	.	-3	.	-3
SA12-1451	0	-4	-6	.	-3	.	-2
SA12-1455	-3	-7	-6	.	-7	.	-3
SA12-1471	-2	-6	-3	.	-4	.	-2
TN13-4301	-4	-7	-3	.	-6	.	-1
TN15-4507	2	9	7	.	6	.	5
TN15-4546	2	1	3	.	6	.	8
TNLR-05	-5	-6	-6	.	-1	.	0
TNLR-10	-3	-7	-3	.	-6	.	0
V12-2259	0	-2	-3	.	-3	.	1
V12-2294	4	0	-4	.	-1	.	0
Mean	-1	-2	-2	.	-1	.	1
LSD(0.05)	5	2	5	.	6	.	2
CV(%)	207	45	115	.	279	.	129



**TABLE 28 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	9/21	9/3	9/10	9/20
AG 4135	-2	-7	1	-3
LD06-7620	-3	-8	2	-5
AG 3934RR2	-3	-8	1	-5
DS14-341	-3	-8	1	-4
DS612-42	3	1	1	1
S14-8943	0	-1	1	-1
S14-9051	6	6	2	3
S14-9412	6	5	3	3
S14-14286	6	3	1	2
S14-14328	7	5	2	3
S14-15146	3	6	3	3
S14-15176	-1	5	2	3
SA10-8471	0	-6	0	-3
SA12-1451	3	-5	1	-2
SA12-1455	-2	-7	2	-4
SA12-1471	0	-7	0	-3
TN13-4301	2	-7	2	-3
TN15-4507	7	10	6	6
TN15-4546	7	11	7	6
TNLR-05	0	-7	2	-3
TNLR-10	-2	-6	1	-3
V12-2259	0	1	1	-1
V12-2294	0	0	2	0
Mean	1	-1	2	0
LSD(0.05)	4	1	2	2
CV(%)	155	71	72	583

**TABLE 29 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	39	43	43	38	34	33	43
AG 4135	41	45	40	37	28	33	43
LD06-7620	34	39	35	32	25	27	37
AG 3934RR2	36	43	31	35	25	35	42
DS14-341	35	48	39	41	33	37	45
DS612-42	37	54	45	41	37	33	46
S14-8943	39	44	36	34	27	37	42
S14-9051	38	42	36	35	28	36	40
S14-9412	34	46	42	42	33	38	43
S14-14286	37	48	40	39	32	37	45
S14-14328	35	46	39	37	32	40	44
S14-15146	35	45	39	36	29	39	43
S14-15176	38	47	41	40	30	37	44
SA10-8471	37	45	36	36	28	41	42
SA12-1451	37	38	31	29	24	32	34
SA12-1455	33	38	29	30	25	37	34
SA12-1471	42	49	39	37	32	39	43
TN13-4301	39	44	41	39	33	37	44
TN15-4507	36	35	32	29	34	38	36
TN15-4546	43	50	47	45	37	44	51
TNLR-05	36	46	35	36	26	37	42
TNLR-10	36	48	41	41	29	39	44
V12-2259	36	43	33	36	30	39	42
V12-2294	35	47	35	35	27	38	42
Mean	37	45	38	37	30	37	42
LSD(0.05)	4	5	3	6	6	7	4
CV(%)	5	6	4	8	10	9	5

**TABLE 29 - PLANT HEIGHT (INCHES) (continued)**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	43	41	36	39
AG 4135	39	39	32	38
LD06-7620	38	33	27	33
AG 3934RR2	38	35	31	35
DS14-341	41	40	37	39
DS612-42	46	47	38	42
S14-8943	42	39	35	37
S14-9051	37	37	34	36
S14-9412	45	45	37	41
S14-14286	41	41	39	40
S14-14328	42	40	37	39
S14-15146	40	37	33	38
S14-15176	43	38	33	39
SA10-8471	42	38	34	38
SA12-1451	34	29	25	31
SA12-1455	35	27	23	31
SA12-1471	46	38	33	40
TN13-4301	42	36	34	39
TN15-4507	34	35	22	33
TN15-4546	45	42	40	44
TNLR-05	42	39	31	37
TNLR-10	46	38	39	40
V12-2259	37	35	32	36
V12-2294	36	36	32	36
Mean	40	38	33	37
LSD(0.05)	3	5	4	2
CV(%)	4	6	6	8

**TABLE 30 - PLANT LODGING (1-5)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	4.0	2.3	2.0	2.5	2.0	1.0	3.5
AG 4135	3.5	2.8	2.0	2.0	2.0	1.0	2.5
LD06-7620	3.5	1.5	1.5	2.0	1.5	1.0	3.0
AG 3934RR2	2.0	2.5	1.0	3.0	2.0	1.0	3.0
DS14-341	4.5	4.5	4.0	4.5	3.5	2.5	4.0
DS612-42	2.0	3.0	4.0	4.0	2.0	1.0	4.0
S14-8943	5.0	3.3	2.0	3.0	2.5	1.0	3.5
S14-9051	5.0	2.8	2.5	3.0	2.5	1.0	2.5
S14-9412	3.5	2.3	2.5	2.0	3.0	1.0	3.0
S14-14286	3.0	2.8	3.0	2.5	2.5	1.0	3.0
S14-14328	3.5	2.8	3.0	2.0	2.0	1.0	3.5
S14-15146	4.5	2.3	2.5	2.5	2.0	1.0	3.0
S14-15176	3.8	2.0	2.0	2.0	2.0	1.0	3.0
SA10-8471	3.5	3.5	1.5	3.0	2.0	1.0	3.0
SA12-1451	4.0	1.8	1.0	1.0	2.0	1.0	2.5
SA12-1455	2.0	1.5	1.0	1.0	1.5	1.0	2.0
SA12-1471	4.5	2.5	2.5	3.0	2.0	1.0	3.5
TN13-4301	3.0	2.8	3.0	3.0	3.0	1.0	3.5
TN15-4507	5.0	3.5	2.0	1.5	2.0	1.5	2.5
TN15-4546	4.0	2.5	1.5	2.5	2.0	1.0	3.0
TNLR-05	4.0	2.5	2.0	3.0	2.0	1.0	3.0
TNLR-10	3.0	3.3	2.5	3.0	2.5	1.0	3.0
V12-2259	3.0	2.3	1.5	1.5	2.0	1.0	3.0
V12-2294	2.5	2.0	1.0	1.5	2.0	1.0	3.0
Mean	3.6	2.6	2.1	2.5	2.2	1.1	3.1
LSD(0.05)	2.0	0.8	1.1	0.8	1.3	0.9	0.9
CV(%)	26.4	15.7	24.3	16.6	28.6	41.6	13.6

**TABLE 30 - PLANT LODGING (1-5) (continued)**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	1.0	2.0	3.0	2.3
AG 4135	1.0	2.0	2.0	2.1
LD06-7620	1.0	2.0	2.0	1.9
AG 3934RR2	1.0	2.0	3.0	2.1
DS14-341	1.5	5.0	5.0	3.9
DS612-42	2.3	5.0	3.0	3.0
S14-8943	1.0	3.5	2.5	2.7
S14-9051	1.3	3.0	2.0	2.6
S14-9412	1.0	3.0	2.0	2.3
S14-14286	1.0	3.0	3.0	2.5
S14-14328	1.5	3.5	3.0	2.6
S14-15146	1.0	3.0	2.5	2.4
S14-15176	1.0	3.0	2.0	2.2
SA10-8471	1.0	2.5	2.5	2.4
SA12-1451	1.0	2.5	2.0	1.9
SA12-1455	1.0	2.0	2.0	1.5
SA12-1471	1.3	2.5	3.0	2.6
TN13-4301	1.0	3.0	3.0	2.6
TN15-4507	1.3	3.0	1.5	2.4
TN15-4546	1.0	3.0	2.0	2.3
TNLR-05	1.0	3.0	3.0	2.5
TNLR-10	1.0	3.0	3.0	2.5
V12-2259	1.0	2.0	2.0	1.9
V12-2294	1.0	2.5	2.0	1.9
Mean	1.1	2.9	2.5	2.4
LSD(0.05)	0.6	0.6	0.6	0.5
CV(%)	23.9	10.9	11.4	26.4

**TABLE 31 - SEED QUALITY (1-5)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	.	1.5	1.0	1.0	1.0	1.0	2.5
AG 4135	.	1.8	1.0	1.0	2.0	1.5	2.0
LD06-7620	.	1.8	2.0	2.0	2.5	1.5	2.0
AG 3934RR2	.	2.8	2.0	1.0	2.5	1.5	2.0
DS14-341	.	1.5	2.0	1.0	1.0	1.0	2.0
DS612-42	.	2.3	2.0	1.0	1.0	1.0	2.0
S14-8943	.	1.3	2.0	2.0	2.0	1.5	2.5
S14-9051	.	1.8	2.0	1.0	2.0	2.5	2.0
S14-9412	.	1.5	1.0	1.0	1.0	1.0	1.0
S14-14286	.	2.0	1.5	1.0	1.2	1.0	2.0
S14-14328	.	2.0	1.0	1.0	1.2	1.0	2.0
S14-15146	.	1.5	1.0	1.0	1.5	1.0	2.0
S14-15176	.	2.0	1.0	1.0	2.5	1.5	2.0
SA10-8471	.	1.5	2.0	1.0	1.5	2.5	2.5
SA12-1451	.	2.5	1.5	1.0	1.0	1.5	1.5
SA12-1455	.	2.5	1.5	2.0	2.0	1.0	1.5
SA12-1471	.	1.8	1.0	2.0	1.5	1.5	2.0
TN13-4301	.	2.5	1.5	2.0	1.0	1.5	1.5
TN15-4507	.	1.8	2.0	1.0	1.0	1.0	2.0
TN15-4546	.	1.8	1.5	1.0	1.0	1.0	2.0
TNLR-05	.	1.5	1.5	2.0	2.5	1.5	2.5
TNLR-10	.	2.0	1.5	2.0	2.0	1.5	2.0
V12-2259	.	1.8	1.5	2.0	2.0	2.0	2.0
V12-2294	.	2.0	1.0	1.0	2.0	1.0	1.0
Mean	.	1.9	1.5	1.3	1.6	1.4	1.9
LSD(0.05)	.	0.6	0.8	.	0.9	1.0	1.0
CV(%)	.	14.4	27.2	.	25.8	36.4	24.7

**TABLE 31 - SEED QUALITY (1-5) (continued)**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	2.0	2.0	2.0	1.6
AG 4135	2.0	2.0	2.0	1.7
LD06-7620	2.0	4.0	3.0	2.3
AG 3934RR2	2.0	2.0	3.0	2.1
DS14-341	1.0	2.0	2.0	1.5
DS612-42	1.0	3.0	2.0	1.7
S14-8943	1.0	3.0	3.0	2.0
S14-9051	2.0	4.0	3.0	2.2
S14-9412	1.0	3.0	2.0	1.4
S14-14286	1.0	3.0	2.0	1.6
S14-14328	1.0	2.0	2.0	1.5
S14-15146	1.0	3.0	2.0	1.5
S14-15176	1.0	3.0	2.0	1.8
SA10-8471	1.0	3.0	2.0	1.9
SA12-1451	1.5	3.0	3.0	1.8
SA12-1455	2.0	4.0	2.0	2.0
SA12-1471	1.5	3.0	3.0	1.9
TN13-4301	1.0	3.0	3.0	1.8
TN15-4507	1.0	3.0	2.0	1.6
TN15-4546	1.0	3.0	2.0	1.6
TNLR-05	2.0	4.0	3.0	2.2
TNLR-10	1.0	3.0	2.0	1.9
V12-2259	1.0	2.0	2.0	1.8
V12-2294	1.0	2.0	2.0	1.5
Mean	1.3	2.9	2.3	1.8
LSD(0.05)	0.4	.	.	0.4
CV(%)	15.0	.	.	27.6

**TABLE 32 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	.	14.6	14.7	14.0	12.3	12.5	12.1
AG 4135	.	15.5	15.2	14.8	13.3	15.0	14.0
LD06-7620	.	14.2	13.7	14.6	11.6	12.0	13.6
AG 3934RR2	.	16.7	14.1	15.7	14.4	16.0	14.7
DS14-341	.	16.1	15.6	15.9	14.5	15.0	15.0
DS612-42	.	13.6	13.2	11.4	11.8	12.0	11.4
S14-8943	.	14.2	13.1	14.8	12.8	13.0	12.8
S14-9051	.	15.5	14.4	14.1	13.0	14.0	13.4
S14-9412	.	14.0	13.8	13.7	12.4	14.5	12.6
S14-14286	.	14.9	14.3	12.7	13.4	12.5	12.6
S14-14328	.	14.1	13.9	12.2	12.6	13.0	12.3
S14-15146	.	15.0	15.0	14.0	12.1	15.0	13.4
S14-15176	.	16.9	16.0	14.0	14.3	14.5	14.3
SA10-8471	.	14.6	13.2	14.7	12.4	14.5	12.1
SA12-1451	.	12.2	12.1	13.7	10.6	10.5	11.1
SA12-1455	.	15.8	16.3	16.3	14.0	14.5	15.0
SA12-1471	.	15.1	15.1	15.1	14.2	14.5	14.3
TN13-4301	.	13.4	13.6	14.8	12.2	12.0	12.4
TN15-4507	.	12.6	12.4	10.9	11.3	14.0	9.9
TN15-4546	.	13.4	12.3	11.2	10.8	14.0	11.2
TNLR-05	.	13.3	13.0	12.2	13.3	12.5	12.2
TNLR-10	.	13.4	13.2	14.9	13.0	13.5	12.6
V12-2259	.	13.0	13.3	13.5	11.7	12.0	12.5
V12-2294	.	14.5	13.4	13.7	12.1	13.0	12.7
Mean	.	14.5	14.0	13.9	12.7	13.5	12.8
LSD(0.05)	.	0.8	1.3	.	1.8	2.1	0.9
CV(%)	.	2.6	4.4	.	6.7	7.6	3.3



**TABLE 32 - SEED SIZE (GRAMS PER 100 SEED) (continued)  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	12.8	14.2	12.8	13.3
AG 4135	14.5	14.3	13.8	14.5
LD06-7620	13.6	14.1	14.8	13.5
AG 3934RR2	15.5	14.9	14.5	15.2
DS14-341	15.6	15.2	16.3	15.4
DS612-42	14.2	11.8	11.6	12.4
S14-8943	12.1	13.7	13.1	13.2
S14-9051	12.5	14.0	13.4	13.8
S14-9412	12.7	13.7	12.8	13.4
S14-14286	12.4	13.6	13.0	13.3
S14-14328	12.9	13.5	12.7	13.0
S14-15146	12.7	14.8	13.6	13.9
S14-15176	13.8	15.6	14.7	14.9
SA10-8471	13.4	12.5	13.2	13.4
SA12-1451	11.5	12.2	12.2	11.7
SA12-1455	14.0	15.0	16.8	15.2
SA12-1471	14.4	14.8	14.5	14.7
TN13-4301	14.0	13.9	13.5	13.2
TN15-4507	11.6	12.9	11.6	11.9
TN15-4546	11.9	12.5	11.9	12.2
TNLR-05	12.3	13.6	13.2	12.8
TNLR-10	12.3	14.7	13.6	13.4
V12-2259	13.4	13.1	12.7	12.8
V12-2294	13.4	13.1	12.6	13.2
Mean	13.2	13.8	13.5	13.5
LSD(0.05)	1.5	.	.	0.7
CV(%)	5.7	.	.	6.1

**TABLE 33 - OIL (%)†**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	.	19.4	19.8	19.7	20.7	.	19.8
AG 4135	.	19.7	20.8	20.2	20.4	.	20.3
LD06-7620	.	19.3	19.5	19.3	19.9	.	19.6
AG 3934RR2	.	19.2	20.6	19.8	20.0	.	20.2
DS14-341	.	18.8	19.7	19.3	20.9	.	19.3
DS612-42	.	19.0	19.8	19.0	20.7	.	19.3
S14-8943	.	20.6	21.5	20.7	20.7	.	20.8
S14-9051	.	20.7	21.5	21.0	21.4	.	21.0
S14-9412	.	20.0	21.2	20.6	21.2	.	20.5
S14-14286	.	18.6	19.2	19.0	20.2	.	18.8
S14-14328	.	19.3	19.7	19.1	20.1	.	19.2
S14-15146	.	19.9	20.9	20.5	20.9	.	20.3
S14-15176	.	19.9	20.7	20.3	20.4	.	20.3
SA10-8471	.	19.5	20.7	20.2	20.6	.	20.8
SA12-1451	.	19.4	19.5	19.5	20.5	.	19.4
SA12-1455	.	19.7	20.3	20.0	20.6	.	20.3
SA12-1471	.	19.3	20.2	19.8	20.3	.	19.8
TN13-4301	.	18.9	20.4	18.8	21.1	.	19.5
TN15-4507	.	17.2	17.7	16.4	18.8	.	15.9
TN15-4546	.	19.4	20.2	19.7	20.8	.	19.4
TNLR-05	.	19.2	20.8	20.2	20.9	.	20.1
TNLR-10	.	19.3	20.5	19.4	20.9	.	20.1
V12-2259	.	19.8	20.8	20.1	21.6	.	20.4
V12-2294	.	19.8	20.2	19.8	21.3	.	20.1
Mean	.	19.4	20.3	19.7	20.6	.	19.8
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 33 - OIL (%)† (continued)**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	19.1	20.2	19.5	19.8
AG 4135	19.6	21.0	19.6	20.2
LD06-7620	19.2	21.4	18.5	19.6
AG 3934RR2	19.8	20.8	19.8	20.0
DS14-341	19.2	20.2	19.4	19.6
DS612-42	19.0	19.8	19.6	19.5
S14-8943	20.6	21.4	20.8	20.9
S14-9051	20.4	21.9	21.4	21.2
S14-9412	20.1	20.5	20.4	20.6
S14-14286	18.3	19.1	18.8	19.0
S14-14328	19.1	19.5	19.1	19.4
S14-15146	20.2	20.4	20.0	20.4
S14-15176	20.0	20.6	20.3	20.3
SA10-8471	20.2	21.4	20.8	20.5
SA12-1451	19.1	20.1	19.6	19.6
SA12-1455	19.5	21.1	19.4	20.1
SA12-1471	19.3	20.1	19.7	19.8
TN13-4301	19.8	20.5	19.7	19.8
TN15-4507	17.2	17.7	17.6	17.3
TN15-4546	19.4	19.3	20.0	19.8
TNLR-05	19.6	21.4	20.8	20.4
TNLR-10	19.9	20.5	19.8	20.1
V12-2259	19.9	20.4	20.3	20.4
V12-2294	19.8	20.0	20.2	20.2
Mean	19.5	20.4	19.8	19.9
LSD	.	.	.	0.4
CV	.	.	.	1.8

**TABLE 34 - PROTEIN (%)†  
PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Columbia, MO</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>Orange, VA</b>	<b>Portageville, MO(B)</b>
AG 4232RR2Y	.	33.7	35.5	36.7	33.7	.	34.7
AG 4135	.	35.3	35.8	36.9	35.6	.	35.9
LD06-7620	.	34.5	35.4	37.3	36.5	.	35.3
AG 3934RR2	.	35.8	35.2	37.5	36.2	.	35.4
DS14-341	.	37.6	37.6	38.9	35.5	.	37.9
DS612-42	.	35.4	35.8	37.6	33.1	.	36.4
S14-8943	.	33.4	33.9	36.4	34.4	.	34.6
S14-9051	.	32.9	33.6	34.8	33.0	.	33.8
S14-9412	.	34.6	35.4	36.9	34.5	.	36.4
S14-14286	.	35.6	37.1	37.7	34.1	.	37.1
S14-14328	.	35.2	36.4	37.2	34.2	.	36.6
S14-15146	.	34.8	34.8	36.1	34.6	.	35.1
S14-15176	.	35.2	36.1	37.3	35.5	.	35.8
SA10-8471	.	35.2	35.6	36.2	34.5	.	33.7
SA12-1451	.	35.1	37.4	37.8	35.6	.	36.7
SA12-1455	.	36.2	37.3	39.0	36.0	.	36.6
SA12-1471	.	35.7	36.0	37.3	36.4	.	36.8
TN13-4301	.	35.7	34.8	39.3	33.5	.	36.2
TN15-4507	.	37.7	38.9	40.8	38.1	.	40.6
TN15-4546	.	32.2	33.9	35.4	32.8	.	34.4
TNLR-05	.	36.8	36.5	37.2	35.7	.	36.5
TNLR-10	.	37.1	37.2	40.4	35.8	.	37.6
V12-2259	.	36.2	36.9	39.1	34.4	.	36.7
V12-2294	.	37.3	38.3	40.0	35.4	.	37.8
Mean	.	35.4	36.1	37.7	35.0	.	36.2
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 34 - PROTEIN (%)† (continued)**  
**PRELIMINARY GROUP IV-S-EARLY 2016**

<b>STRAIN/ VARIETY</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Test Mean</b>
AG 4232RR2Y	36.1	33.3	35.3	34.9
AG 4135	36.8	33.8	36.4	35.8
LD06-7620	36.8	36.4	36.7	36.1
AG 3934RR2	36.2	34.2	36.3	35.9
DS14-341	37.8	35.5	39.0	37.5
DS612-42	35.8	34.9	36.2	35.7
S14-8943	33.7	32.4	35.5	34.3
S14-9051	34.4	32.0	33.6	33.5
S14-9412	35.7	35.2	36.6	35.7
S14-14286	37.0	34.6	36.7	36.2
S14-14328	36.1	34.6	36.5	35.9
S14-15146	34.8	34.4	36.1	35.1
S14-15176	35.6	34.5	36.4	35.8
SA10-8471	34.9	32.6	34.7	34.7
SA12-1451	36.7	35.3	37.2	36.5
SA12-1455	36.7	35.5	36.4	36.7
SA12-1471	37.6	35.0	36.7	36.4
TN13-4301	36.2	34.6	36.1	35.8
TN15-4507	38.9	38.6	38.5	39.0
TN15-4546	33.6	34.1	33.9	33.8
TNLR-05	37.3	35.7	36.3	36.5
TNLR-10	37.2	36.4	38.2	37.5
V12-2259	37.2	35.9	37.3	36.7
V12-2294	37.5	36.8	38.3	37.7
Mean	36.3	34.8	36.5	36.0
LSD	.	.	.	0.6
CV	.	.	.	1.8

INTENTIONALLY BLANK

**TABLE 35 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	Ellis	5002T x 5601T			Conv	
2	AG 4632RR2Y	Commercial check			RR2	
3	AG 4835	Commercial check			RR2	
4	DA10x05-20F	DB06-1225 x DB06-2257	Gillen	F5	Conv	
5	DA10x16-09F	DA07-0560 x Jake	Gillen	F5	Conv	
6	DA10x30-09F	Jake x DB04-10997	Gillen	F5	Conv	
7	DA10x30-48F	Jake x DB04-10997	Gillen	F5	Conv	
8	DA10x34-12F	DB06-2257 x NCC05-1168	Gillen	F5	Conv	
9	DA10x35-17F	DB04-10836 x R01-3474F	Gillen	F5	Conv	
10	K14-1715	NCC05-1261 / 435.TCS	Schapaugh	F4	Conv	
11	K14-1717	NCC05-1261 / 435.TCS	Schapaugh	F4	Conv	STS
12	K14-1719	NCC05-1261 / 435.TCS	Schapaugh	F4	Conv	STS
13	K14-1730	KS5004N / 435.TCS	Schapaugh	F4	Conv	STS
14	K14-1736	KS5004N / 435.TCS	Schapaugh	F4	Conv	STS
15	K14-1737	KS5004N / 435.TCS	Schapaugh	F4	Conv	
16	R10-298	5601T x Ozark	Chen	F5	Conv	
17	R10-1809	JTN 5503 x R03-176	Chen	F3	Conv	
18	R13-354	NCC05-1261 x R04-357	Chen	F3	Conv	
19	R13-1724	LS03-4294 x R05-3239	Chen	F4	Conv	
20	R13-4187RY	R05-3239 x UA 4805 [R2Y1 (F2)]	Chen	F4	RR2	
21	R13-4244	R05-3239 x UA 4805 [R2Y1 (F2)]	Chen	F5	Conv	
22	S14-1658	SO05-11482 x S07-5451	Shannon		Conv	
23	S14-2088	S06-11278 x S08-17361	Shannon		Conv	
24	S14-2582	S06-11278 x S11-185F1	Shannon		Conv	
25	S14-4034	S05-11482 x S10-508 F1	Shannon		Conv	
26	S14-15010	S09-10871 x S08-9727RR1	Shannon		RR1	
27	S14-15108	S09-10871 x S08-9727RR1	Shannon		RR1	
28	TN11-5083	Holladay x Manokin	Pantalone		Conv	
29	TN14-5020	Caviness x Anand	Pantalone		Conv	
30	TN14-5021	Caviness x Anand	Pantalone		Conv	
31	TN14-5035	Caviness x Anand	Pantalone		Conv	
32	TN15-4011	TN09-016 x S05-11482	Pantalone		Conv	
33	TN15-4037	TN09-029 x TN10-3011	Pantalone		Conv	
34	V12-0214R2	Teejay x (Ag5501(3) x GM_A19788)	Zhang		RR2	
35	V12-0253R2	Teejay x (Ag5501(3) x GM_A19788)	Zhang		RR2	
36	V12-0963	LD00-3309 x S0-007RR	Zhang		RR1	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonyleurea tolerant

**TABLE 36 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST IV-S-LATE 2016**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK					Race 2	Race 3	Race 5		
Ellis	57.2	5	14	0	1.7	29	4	3	2	R	1
AG 4632RR2Y	57.1	6	16	-3	2.2	36	3	4	3	MR	2
AG 4835	56.3	10	17	-1	2.3	39	4	5	2	R	1
DA10x05-20F	56.8	7	15	0	2.3	33	4	5	5	R	1
DA10x16-09F	54.2	23	20	-4	1.7	26	4	5	3	R	1
DA10x30-09F	59.4	1	10	-1	2.2	34	2	1	1	R	1
DA10x30-48F	59.2	2	12	-1	2.1	34	3	1	2	R	1
DA10x34-12F	51.9	31	24	-2	2.0	31	3	5	5	R	1
DA10x35-17F	55.3	19	19	-2	2.7	35	4	5	4	R	1
K14-1715	54.6	20	18	-5	1.8	28	3	1	4	R	1
K14-1717	56.5	9	16	0	2.1	25	4	4	4	R	1
K14-1719	55.8	15	18	-2	1.8	25	5	4	5	R	1
K14-1730	50.2	34	26	-2	1.6	24	1	1	1	R	1
K14-1736	53.9	28	18	-2	1.7	23	5	1	4	R	1
K14-1737	51.2	33	25	-2	1.6	25	3	1	2	R	1
R10-298	59.0	3	10	1	2.6	34	4	5	4	R	1
R10-1809	56.0	13	16	0	2.2	32	4	3	5	R	1
R13-354	54.1	25	20	-3	2.3	31	3	4	4	R	1
R13-1724	57.5	4	15	1	2.1	30	4	4	5	R	1
R13-4187RY	54.1	26	21	-2	1.8	30	4	4	4	R	1
R13-4244	55.5	16	14	0	1.8	29	3	3	3	R	1
S14-1658	55.4	17	17	3	2.6	35	5	5	5	SS	3
S14-2088	51.6	32	25	-1	2.8	36	4	4	5	R	1
S14-2582	56.3	11	16	-1	2.3	32	3	3	4	R	1
S14-4034	53.2	30	19	-2	2.6	33	3	4	4	R	1
S14-15010	54.0	27	21	0	2.3	35	4	5	4	R	1
S14-15108	55.3	18	19	-3	2.1	34	4	3	5	R	1
TN11-5083	54.1	24	20	-1	2.2	29	5	4	5	R	1
TN14-5020	53.9	29	18	-2	1.7	27	1	1	1	R	1
TN14-5021	56.6	8	14	-2	2.0	28	2	1	1	R	1
TN14-5035	56.0	14	14	-2	1.9	30	1	1	1	R	1
TN15-4011	56.1	12	17	-1	2.1	27	1	1	1	MS	4
TN15-4037	43.9	36	32	-3	3.1	41	1	1	1	R	1
V12-0214R2	54.3	22	19	-1	1.8	27	4	4	4	R	1
V12-0253R2	54.4	21	19	-3	1.8	26	4	3	4	R	1
V12-0963	45.1	35	32	-5	2.8	40	4	2	5	R	1
Mean	54.6	.	.	-2	2.1	31	.	.	.	.	.
LSD(0.05)	5.7	.	.	3	.	3	.	.	.	.	.
CV(%)	13.2	.	.	201	.	13	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.



**TABLE 36 - GENERAL SUMMARY OF PERFORMANCE (continued)  
PRELIMINARY TEST IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
Ellis	1.6	12.1	35.2	19.0	W	G	T
AG 4632RR2Y	2.3	14.2	33.8	20.0	P	G	Br
AG 4835	1.7	12.4	35.4	19.0	P	G	Br
DA10x05-20F	1.9	15.1	35.4	19.2	W	T	T
DA10x16-09F	1.7	14.9	36.8	19.2	P	T	T
DA10x30-09F	1.5	11.4	36.8	18.2	P	T	T
DA10x30-48F	1.6	11.5	37.4	18.7	P	T	T
DA10x34-12F	1.7	12.9	35.1	19.5	W	T	T
DA10x35-17F	2.2	12.1	35.2	20.1	P	T	T
K14-1715	1.5	12.3	36.0	18.9	S	G	T
K14-1717	1.9	15.4	36.2	19.0	P	G	Br
K14-1719	1.8	14.4	36.3	19.1	S	G	Br
K14-1730	1.8	11.7	35.9	19.4	W	G	Br
K14-1736	1.7	12.3	36.0	19.7	P	G	Br
K14-1737	1.8	12.9	36.0	19.2	W	G	T
R10-298	1.5	14.0	35.6	19.7	W	G	T
R10-1809	2.1	12.9	35.2	19.6	S	G	T
R13-354	1.9	11.6	35.5	18.8	S	G	T
R13-1724	1.8	13.5	34.9	20.2	S	T	T
R13-4187RY	1.8	13.3	36.3	18.6	P	T	T
R13-4244	1.7	12.8	37.3	18.1	P	G	T
S14-1658	1.6	14.7	36.1	20.1	P	G	T
S14-2088	2.5	14.8	36.1	20.1	P	T	T
S14-2582	1.9	13.9	36.9	19.3	W	G	T
S14-4034	1.6	12.8	35.7	19.0	P	T	T
S14-15010	2.4	13.6	35.6	19.8	W	S	T
S14-15108	2.3	13.2	35.7	20.0	W	G	T
TN11-5083	2.0	14.5	35.9	20.3	W	T	T
TN14-5020	1.7	12.3	35.3	19.5	W	G	T
TN14-5021	1.8	12.6	35.3	19.5	W	G	T
TN14-5035	1.9	12.5	35.4	19.4	W	G	T
TN15-4011	2.0	13.3	34.2	20.0	W	T	T
TN15-4037	2.9	15.3	36.4	19.1	W	T	T
V12-0214R2	1.8	14.4	35.9	19.4	P	G	T
V12-0253R2	1.7	13.4	36.1	19.8	P	G	Br
V12-0963	2.3	10.7	36.5	19.1	P	T	T
Mean	1.9	13.2	35.8	19.4	.	.	.
LSD(0.05)	0.5	0.8	0.5	0.3	.	.	.
CV(%)	28.2	6.8	1.5	1.9	.	.	.

**TABLE 37 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	54.1	51.3	79.7	47.5	52.7	60.6	42.9
AG 4632RR2Y	46.7	42.9	69.9	53.9	47.3	61.9	46.8
AG 4835	44.5	50.1	63.3	56.2	52.5	67.5	43.2
DA10x05-20F	53.5	49.6	75.1	39.8	54.2	57.7	45.2
DA10x16-09F	50.5	51.0	74.0	44.0	48.6	46.7	45.6
DA10x30-09F	52.5	54.1	77.5	55.5	56.8	63.9	39.3
DA10x30-48F	49.2	51.0	76.6	42.7	54.9	55.1	56.4
DA10x34-12F	46.2	45.4	62.8	53.4	50.4	53.3	42.1
DA10x35-17F	42.8	47.0	73.6	46.0	50.7	53.0	48.2
K14-1715	43.0	55.4	67.2	50.3	50.2	61.3	46.0
K14-1717	49.1	59.0	68.4	60.0	47.0	54.8	48.1
K14-1719	49.6	53.6	65.6	56.7	46.1	53.6	45.8
K14-1730	48.5	54.7	64.1	35.6	46.0	53.0	28.7
K14-1736	53.2	56.5	51.8	54.4	54.0	59.4	35.4
K14-1737	59.7	48.1	59.4	48.7	47.4	59.9	38.2
R10-298	51.6	57.8	80.5	57.3	55.0	57.3	50.4
R10-1809	50.9	55.3	71.1	44.7	51.9	57.6	46.2
R13-354	42.7	52.5	73.0	50.7	54.2	49.8	37.5
R13-1724	48.7	50.7	81.0	44.5	50.3	60.6	52.8
R13-4187RY	46.5	54.7	76.5	38.8	45.4	58.2	46.2
R13-4244	26.0	51.6	78.9	47.2	50.5	61.0	50.5
S14-1658	57.3	43.6	74.4	46.0	48.6	61.2	50.5
S14-2088	39.2	47.8	66.2	43.9	50.6	51.7	40.1
S14-2582	47.6	54.8	70.4	51.8	51.2	53.3	48.3
S14-4034	54.7	47.7	77.4	52.8	52.8	58.6	25.3
S14-15010	48.6	52.0	75.0	36.5	41.2	60.2	42.2
S14-15108	47.0	50.6	68.3	43.1	48.5	60.9	47.4
TN11-5083	50.3	53.5	77.5	45.2	48.2	46.1	52.7
TN14-5020	57.0	57.2	72.0	40.7	53.3	66.5	36.6
TN14-5021	55.3	60.0	74.0	42.1	53.6	64.7	46.7
TN14-5035	51.7	56.5	69.5	47.2	54.2	62.0	46.1
TN15-4011	63.9	53.1	62.4	56.0	54.5	70.5	39.7
TN15-4037	42.1	34.4	55.6	33.2	48.9	54.3	35.5
V12-0214R2	39.2	51.5	67.9	45.9	55.4	53.4	47.1
V12-0253R2	51.2	53.4	61.3	59.3	48.3	62.2	31.2
V12-0963	37.8	38.9	60.4	33.3	47.3	48.3	28.8
Mean	48.7	51.3	70.1	47.3	50.6	57.7	43.1
LSD(0.05)	14.3	9.4	11.9	13.6	5.4	7.8	9.3
CV(%)	14.5	9.1	8.3	13.8	5.3	6.7	10.6

‡ Data not included in test mean due to CV > 15%.

**TABLE 37 - SEED YIELD (BUSHEL PER ACRE) (continued)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA ‡</b>	<b>Test Mean</b>
Ellis	74.8	51.1	37.3	57.2
AG 4632RR2Y	77.9	66.5	32.2	57.1
AG 4835	67.0	63.0	41.8	56.3
DA10x05-20F	78.1	57.9	31.4	56.8
DA10x16-09F	74.3	53.2	29.6	54.2
DA10x30-09F	71.0	64.1	35.5	59.4
DA10x30-48F	75.1	69.5	39.7	59.2
DA10x34-12F	67.5	47.7	36.0	51.9
DA10x35-17F	72.2	64.5	30.5	55.3
K14-1715	74.8	43.2	28.7	54.6
K14-1717	73.2	48.9	28.5	56.5
K14-1719	78.4	51.0	24.1	55.8
K14-1730	70.9	50.8	19.8	50.2
K14-1736	71.5	47.6	25.2	53.9
K14-1737	55.9	41.3	19.9	51.2
R10-298	57.8	63.6	27.2	59.0
R10-1809	69.3	57.3	32.7	56.0
R13-354	70.4	56.1	37.4	54.1
R13-1724	69.7	59.7	30.7	57.5
R13-4187RY	67.4	53.1	29.4	54.1
R13-4244	75.5	58.4	38.3	55.5
S14-1658	60.1	57.2	34.9	55.4
S14-2088	58.0	67.2	26.5	51.6
S14-2582	65.9	63.2	38.6	56.3
S14-4034	56.1	53.9	34.6	53.2
S14-15010	62.1	68.3	28.9	54.0
S14-15108	72.5	59.8	26.8	55.3
TN11-5083	66.7	47.0	33.1	54.1
TN14-5020	58.4	43.8	28.7	53.9
TN14-5021	63.8	49.3	32.2	56.6
TN14-5035	61.8	55.3	27.1	56.0
TN15-4011	58.5	42.2	28.7	56.1
TN15-4037	45.6	45.2	30.9	43.9
V12-0214R2	72.3	56.5	26.0	54.3
V12-0253R2	67.8	54.7	29.3	54.4
V12-0963	54.7	56.7	21.2	45.1
Mean	67.1	55.2	30.6	54.6
LSD(0.05)	13.1	6.4	12.6	5.7
CV(%)	9.6	5.4	20.2	13.2

‡ Data not included in test mean due to CV > 15%.

**TABLE 38 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, Jackson, Keiser, Knoxville, McCune, Pittsburg, Portageville,</b>						
	<b>IL</b>	<b>TN</b>	<b>AR</b>	<b>TN</b>	<b>KS</b>	<b>KS</b>	<b>MO(B)</b>
Ellis	10/12	9/25	.	9/14	10/18	.	10/3
AG 4632RR2Y	-2	4	.	2	-5	.	-5
AG 4835	0	2	.	8	-5	.	-2
DA10x05-20F	-1	4	.	6	-3	.	0
DA10x16-09F	1	-2	.	-1	-2	.	-5
DA10x30-09F	-1	-2	.	6	-3	.	-2
DA10x30-48F	-3	-2	.	6	-2	.	-2
DA10x34-12F	1	2	.	7	-3	.	-2
DA10x35-17F	-3	5	.	7	-4	.	-3
K14-1715	-3	2	.	-1	-4	.	-4
K14-1717	-2	5	.	1	2	.	1
K14-1719	-2	1	.	1	0	.	-1
K14-1730	-1	4	.	0	-4	.	-2
K14-1736	1	0	.	0	0	.	-2
K14-1737	-1	2	.	2	-3	.	-4
R10-298	-3	7	.	5	-3	.	2
R10-1809	-1	0	.	3	1	.	0
R13-354	1	2	.	0	-3	.	-5
R13-1724	-3	7	.	6	4	.	1
R13-4187RY	1	2	.	-1	-5	.	-2
R13-4244	-1	2	.	5	-1	.	1
S14-1658	3	6	.	6	0	.	1
S14-2088	-2	7	.	5	-2	.	-3
S14-2582	1	2	.	2	-2	.	-1
S14-4034	-1	0	.	4	-3	.	-4
S14-15010	0	9	.	7	0	.	-1
S14-15108	2	2	.	0	-5	.	-3
TN11-5083	0	2	.	3	-5	.	0
TN14-5020	3	0	.	0	-2	.	-2
TN14-5021	1	0	.	-1	-2	.	-1
TN14-5035	-1	4	.	0	-1	.	-2
TN15-4011	0	0	.	-1	-3	.	-5
TN15-4037	1	5	.	2	-3	.	-3
V12-0214R2	-3	6	.	4	-2	.	-1
V12-0253R2	0	1	.	1	-5	.	-5
V12-0963	-5	1	.	-1	-4	.	-7
Mean	-1	2	.	3	-2	.	-2
LSD(0.05)	4	6	.	4	3	.	3
CV(%)	-259	116	.	73	-74	.	-74

**TABLE 38 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	9/18	9/30	10/13	10/2
AG 4632RR2Y	-6	-14	-3	-3
AG 4835	-6	-8	0	-1
DA10x05-20F	-1	-5	-1	0
DA10x16-09F	-6	-10	-4	-4
DA10x30-09F	0	-9	2	-1
DA10x30-48F	0	-8	0	-1
DA10x34-12F	-9	-13	-1	-2
DA10x35-17F	-5	-10	-2	-2
K14-1715	-10	-14	-6	-5
K14-1717	0	-4	-1	0
K14-1719	-5	-5	-4	-2
K14-1730	-4	-6	-7	-2
K14-1736	-3	-6	-7	-2
K14-1737	-3	-3	-7	-2
R10-298	0	-1	-3	1
R10-1809	0	-3	-1	0
R13-354	-6	-8	-5	-3
R13-1724	-1	-4	1	1
R13-4187RY	-2	-4	-7	-2
R13-4244	1	-3	-1	0
S14-1658	3	1	2	3
S14-2088	-2	-9	-4	-1
S14-2582	-2	-10	-2	-1
S14-4034	-2	-6	-2	-2
S14-15010	-1	-10	-3	0
S14-15108	-3	-14	-6	-3
TN11-5083	-1	-1	-6	-1
TN14-5020	-2	-7	-3	-2
TN14-5021	-3	-5	-4	-2
TN14-5035	-3	-5	-4	-2
TN15-4011	-3	8	-8	-1
TN15-4037	-6	-21	0	-3
V12-0214R2	-5	-8	-2	-1
V12-0253R2	-2	-9	-3	-3
V12-0963	-3	-16	-8	-5
Mean	-3	-7	-3	-2
LSD(0.05)	2	7	4	3
CV(%)	-27	-49	-70	-201

**TABLE 39 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	37	33	27	30	34	35	26
AG 4632RR2Y	42	42	38	31	33	41	35
AG 4835	47	44	45	37	33	47	36
DA10x05-20F	35	35	30	37	34	42	30
DA10x16-09F	33	30	25	30	29	29	23
DA10x30-09F	43	34	34	33	34	41	26
DA10x30-48F	43	32	32	32	36	40	28
DA10x34-12F	32	30	31	35	36	39	24
DA10x35-17F	40	38	33	33	36	42	32
K14-1715	37	29	24	31	30	31	26
K14-1717	32	28	23	28	26	31	24
K14-1719	32	27	25	28	29	32	21
K14-1730	33	29	21	24	24	30	18
K14-1736	30	24	21	24	28	33	19
K14-1737	32	29	20	26	28	34	24
R10-298	35	42	31	39	41	45	32
R10-1809	39	34	31	32	33	42	29
R13-354	36	36	31	34	33	39	27
R13-1724	32	34	26	33	34	39	28
R13-4187RY	38	33	26	32	32	36	26
R13-4244	35	31	27	33	30	40	27
S14-1658	41	39	34	37	37	40	33
S14-2088	42	38	40	32	33	36	36
S14-2582	37	34	30	37	37	39	26
S14-4034	38	31	33	41	39	44	27
S14-15010	35	41	41	29	32	38	37
S14-15108	35	38	40	29	30	43	33
TN11-5083	35	29	28	33	33	35	24
TN14-5020	35	31	23	31	32	36	22
TN14-5021	40	31	26	32	28	38	23
TN14-5035	38	35	26	33	35	39	22
TN15-4011	36	31	22	31	29	31	24
TN15-4037	48	45	42	41	41	44	37
V12-0214R2	33	32	22	31	30	32	23
V12-0253R2	36	31	24	28	27	31	18
V12-0963	43	47	45	38	37	41	37
Mean	37	34	30	32	32	37	27
LSD(0.05)	6	8	3	5	4	5	5
CV(%)	8	11	5	7	6	7	9

**TABLE 39 - PLANT HEIGHT (INCHES) (continued)**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	26	14	27	29
AG 4632RR2Y	34	40	28	36
AG 4835	39	39	30	39
DA10x05-20F	35	24	29	33
DA10x16-09F	25	16	22	26
DA10x30-09F	38	32	28	34
DA10x30-48F	36	31	29	34
DA10x34-12F	33	23	29	31
DA10x35-17F	35	34	28	35
K14-1715	29	15	27	28
K14-1717	25	17	22	25
K14-1719	24	15	20	25
K14-1730	23	15	20	24
K14-1736	24	12	21	23
K14-1737	23	18	19	25
R10-298	32	21	27	34
R10-1809	34	21	24	32
R13-354	31	18	28	31
R13-1724	33	21	23	30
R13-4187RY	30	20	28	30
R13-4244	29	20	26	29
S14-1658	33	28	29	35
S14-2088	41	43	25	36
S14-2582	35	18	27	32
S14-4034	35	18	30	33
S14-15010	38	36	24	35
S14-15108	34	36	24	34
TN11-5083	28	17	27	29
TN14-5020	26	13	23	27
TN14-5021	26	13	26	28
TN14-5035	29	16	25	30
TN15-4011	29	17	24	27
TN15-4037	42	38	32	41
V12-0214R2	28	15	24	27
V12-0253R2	26	15	23	26
V12-0963	49	41	25	40
Mean	31	23	25	31
LSD(0.05)	4	6	5	3
CV(%)	7	13	10	13

**TABLE 40 - PLANT LODGING (1-5)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	5.0	1.0	1.0	2.0	1.0	1.0	2.0
AG 4632RR2Y	5.0	2.0	2.5	1.5	1.0	1.5	3.0
AG 4835	4.5	2.5	2.0	2.0	1.0	2.0	3.0
DA10x05-20F	5.0	1.5	1.5	3.0	1.5	3.0	3.0
DA10x16-09F	5.0	1.0	1.0	2.0	1.0	1.0	2.0
DA10x30-09F	4.5	1.5	1.0	2.0	1.0	3.0	3.0
DA10x30-48F	5.0	1.0	1.5	2.0	2.0	2.5	2.0
DA10x34-12F	4.5	1.0	1.0	2.0	1.5	2.5	2.5
DA10x35-17F	5.0	4.0	1.5	2.0	2.0	3.5	3.0
K14-1715	4.0	1.5	1.0	2.5	1.0	1.5	2.5
K14-1717	5.0	1.5	1.0	2.5	1.0	3.0	2.5
K14-1719	4.0	1.5	1.0	2.0	1.0	2.5	2.0
K14-1730	3.5	1.5	1.0	1.5	1.0	1.0	2.0
K14-1736	3.5	1.0	1.0	2.0	1.0	2.5	2.0
K14-1737	3.0	1.0	1.0	1.5	1.0	1.5	3.0
R10-298	4.5	3.0	2.0	3.5	2.0	3.5	3.0
R10-1809	5.0	2.0	1.5	1.5	1.0	3.0	3.0
R13-354	4.5	2.5	1.0	3.0	1.5	3.0	2.5
R13-1724	5.0	2.5	1.0	2.0	1.0	2.5	3.0
R13-4187RY	4.5	1.5	1.0	1.0	1.0	2.5	2.5
R13-4244	5.0	1.0	1.5	1.0	1.0	2.0	2.5
S14-1658	4.5	2.5	2.0	2.0	2.0	4.0	3.0
S14-2088	5.0	4.0	3.5	2.0	1.0	2.5	3.0
S14-2582	5.0	2.5	1.5	3.5	1.5	2.0	2.5
S14-4034	5.0	1.5	2.0	3.5	1.5	3.0	3.0
S14-15010	5.0	1.5	2.5	2.0	1.0	1.5	2.5
S14-15108	5.0	1.5	2.0	2.0	1.0	1.5	2.5
TN11-5083	5.0	1.5	1.5	2.0	1.5	3.0	2.5
TN14-5020	4.5	1.0	1.0	1.5	1.0	2.0	2.0
TN14-5021	5.0	1.0	1.0	1.5	1.0	4.0	2.0
TN14-5035	5.0	1.5	1.0	1.5	1.0	2.0	2.0
TN15-4011	5.0	2.0	1.0	3.0	1.0	2.5	2.5
TN15-4037	5.0	4.0	3.0	3.0	1.0	4.0	3.0
V12-0214R2	4.5	1.5	1.0	1.5	1.0	2.5	2.0
V12-0253R2	5.0	1.0	1.0	2.0	1.0	2.0	2.0
V12-0963	5.0	3.5	3.0	2.0	1.0	3.0	3.0
Mean	4.7	1.8	1.5	2.1	1.2	2.4	2.5
LSD(0.05)	1.2	1.1	0.8	0.9	0.6	1.1	0.7
CV(%)	13.1	30.6	24.8	20.8	24.2	21.6	13.0



**TABLE 40 - PLANT LODGING (1-5) (continued)**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	2.0	1.0	1.2	1.7
AG 4632RR2Y	2.0	2.0	1.2	2.2
AG 4835	3.0	1.5	1.4	2.3
DA10x05-20F	2.0	1.0	1.2	2.3
DA10x16-09F	2.0	1.0	1.0	1.7
DA10x30-09F	2.5	2.0	1.4	2.2
DA10x30-48F	2.0	2.0	1.2	2.1
DA10x34-12F	2.0	1.5	1.4	2.0
DA10x35-17F	2.5	2.0	1.2	2.7
K14-1715	2.0	1.0	1.2	1.8
K14-1717	2.0	1.0	1.2	2.1
K14-1719	2.0	1.0	1.1	1.8
K14-1730	2.0	1.0	1.1	1.6
K14-1736	2.0	1.0	1.4	1.7
K14-1737	2.0	1.0	1.2	1.6
R10-298	2.5	1.0	1.4	2.6
R10-1809	2.0	1.5	1.2	2.2
R13-354	2.5	1.5	1.4	2.3
R13-1724	2.0	1.0	1.2	2.1
R13-4187RY	2.0	1.0	1.2	1.8
R13-4244	2.0	1.0	1.2	1.8
S14-1658	2.0	2.0	1.5	2.6
S14-2088	3.5	2.5	1.2	2.8
S14-2582	2.0	1.5	1.2	2.3
S14-4034	3.0	1.5	1.5	2.6
S14-15010	3.0	2.5	1.2	2.3
S14-15108	2.5	2.0	1.2	2.1
TN11-5083	2.5	1.0	1.2	2.2
TN14-5020	2.0	1.0	1.2	1.7
TN14-5021	2.0	1.0	1.2	2.0
TN14-5035	2.0	1.5	1.0	1.9
TN15-4011	2.0	1.0	1.2	2.1
TN15-4037	3.0	3.0	1.5	3.1
V12-0214R2	2.0	1.0	1.1	1.8
V12-0253R2	2.0	1.0	1.1	1.8
V12-0963	3.5	2.5	1.2	2.8
Mean	2.3	1.4	1.2	2.1
LSD(0.05)	0.7	0.8	0.2	0.4
CV(%)	14.4	25.8	7.9	26.9

**TABLE 41 - SEED QUALITY (1-5)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis		1.0	1.0	1.0	2.0	2.0	1.5
AG 4632RR2Y		2.0	1.0	2.0	3.0	2.0	2.5
AG 4835		1.5	1.0	1.0	2.0	2.0	1.0
DA10x05-20F		2.0	2.0	1.0	2.0	2.0	2.0
DA10x16-09F		2.0	1.0	1.0	2.0	.	1.5
DA10x30-09F		1.0	1.0	1.0	2.0	2.0	1.0
DA10x30-48F		1.5	1.0	1.0	2.0	2.0	2.0
DA10x34-12F		2.0	1.0	1.0	2.0	2.0	2.0
DA10x35-17F		3.0	2.0	2.0	2.0	3.0	2.0
K14-1715		1.0	1.0	1.0	2.0	1.0	1.0
K14-1717		1.5	1.0	1.0	2.0	2.0	2.0
K14-1719		1.0	1.0	1.0	2.0	3.0	1.0
K14-1730		1.5	1.0	1.0	2.0	2.0	1.5
K14-1736		1.5	1.0	1.0	2.0	2.0	1.0
K14-1737		1.0	1.0	1.0	2.0	2.0	1.0
R10-298		1.5	1.0	1.0	2.0	2.0	1.0
R10-1809		2.0	2.0	1.0	2.0	3.0	1.0
R13-354		1.5	1.0	1.0	2.0	2.0	1.5
R13-1724		2.0	1.0	1.0	2.0	3.0	2.0
R13-4187RY		1.5	1.0	1.0	2.0	2.0	1.0
R13-4244		1.0	1.0	1.0	2.0	3.0	1.0
S14-1658		1.0	1.0	1.0	3.0	2.0	1.0
S14-2088		2.5	1.0	3.0	2.0	2.0	2.0
S14-2582		2.0	1.0	1.0	2.0	2.0	1.0
S14-4034		1.0	1.0	1.0	2.0	2.0	1.0
S14-15010		2.0	2.0	3.0	2.0	2.0	2.0
S14-15108		2.0	1.0	2.0	2.0	2.0	3.0
TN11-5083		2.0	1.0	1.0	2.0	2.0	2.0
TN14-5020		2.0	1.0	1.0	2.0	2.0	1.0
TN14-5021		1.5	1.0	1.0	2.0	2.0	1.0
TN14-5035		1.5	1.0	1.0	2.0	2.0	2.0
TN15-4011		1.5	1.0	1.0	3.0	3.0	1.0
TN15-4037		4.0	3.0	2.0	2.0	3.0	4.0
V12-0214R2		1.0	1.0	1.0	2.0	2.0	1.0
V12-0253R2		1.0	1.0	1.0	2.0	2.0	1.0
V12-0963		2.0	2.0	2.0	3.0	2.0	1.5
Mean		1.7	1.2	1.3	2.1	2.2	1.5
LSD(0.05)		0.8	.	.	.	.	0.6
CV(%)		24.5	.	0.0	.	.	18.9

**TABLE 41 - SEED QUALITY (1-5) (continued)**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	2.0	2.0	2.0	1.6
AG 4632RR2Y	3.0	2.0	3.3	2.3
AG 4835	2.0	2.0	2.4	1.7
DA10x05-20F	2.0	2.0	2.0	1.9
DA10x16-09F	3.0	1.0	1.7	1.7
DA10x30-09F	3.0	1.0	1.4	1.5
DA10x30-48F	3.0	1.0	1.4	1.6
DA10x34-12F	3.0	1.0	1.4	1.7
DA10x35-17F	3.0	1.0	1.8	2.2
K14-1715	3.0	1.0	2.8	1.5
K14-1717	3.0	2.0	2.5	1.9
K14-1719	3.0	2.0	2.8	1.8
K14-1730	3.0	2.0	2.5	1.8
K14-1736	3.0	1.0	2.6	1.7
K14-1737	3.0	2.0	3.3	1.8
R10-298	2.0	1.0	2.3	1.5
R10-1809	3.0	2.0	2.8	2.1
R13-354	3.0	1.0	3.5	1.9
R13-1724	3.0	1.0	1.5	1.8
R13-4187RY	3.0	1.0	3.3	1.8
R13-4244	3.0	2.0	1.3	1.7
S14-1658	3.0	2.0	1.3	1.6
S14-2088	3.0	2.0	4.3	2.5
S14-2582	3.0	2.0	2.9	1.9
S14-4034	3.0	2.0	1.3	1.6
S14-15010	3.0	2.0	3.1	2.4
S14-15108	3.0	2.0	3.1	2.3
TN11-5083	3.0	2.0	2.5	2.0
TN14-5020	3.0	2.0	1.8	1.7
TN14-5021	3.0	2.0	2.4	1.8
TN14-5035	3.0	2.0	2.8	1.9
TN15-4011	3.0	2.0	3.0	2.0
TN15-4037	4.0	2.0	1.5	2.9
V12-0214R2	3.0	2.0	3.0	1.8
V12-0253R2	3.0	1.0	3.0	1.7
V12-0963	3.0	2.0	2.9	2.3
Mean	2.9	1.7	2.4	1.9
LSD(0.05)	.	.	0.9	0.5
CV(%)	.	.	19.1	28.2

**TABLE 42 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	.	11.2	11.5	11.1	13.6	12.9	11.5
AG 4632RR2Y	.	12.5	13.7	14.6	16.8	17.2	13.2
AG 4835	.	11.8	10.6	12.4	14.9	14.3	11.7
DA10x05-20F	.	14.2	14.8	14.6	16.9	18.0	15.9
DA10x16-09F	.	14.3	15.7	13.5	16.9	.	13.8
DA10x30-09F	.	11.0	10.4	10.2	13.7	13.0	10.4
DA10x30-48F	.	10.7	10.5	11.7	13.7	12.8	10.9
DA10x34-12F	.	12.3	11.5	12.8	15.0	16.0	12.6
DA10x35-17F	.	11.7	11.5	11.7	13.3	14.1	11.1
K14-1715	.	11.9	12.0	11.7	15.1	12.9	11.7
K14-1717	.	14.8	15.2	13.6	19.3	16.2	14.8
K14-1719	.	12.9	13.9	12.6	19.1	15.4	13.6
K14-1730	.	11.3	11.6	10.1	15.0	11.8	10.9
K14-1736	.	12.3	12.0	10.7	14.9	12.9	11.7
K14-1737	.	12.3	12.0	12.0	15.4	14.9	12.1
R10-298	.	13.7	14.0	14.2	14.7	14.3	13.4
R10-1809	.	11.8	13.7	11.5	16.5	14.8	12.1
R13-354	.	11.0	12.0	11.4	12.7	12.9	10.7
R13-1724	.	11.8	12.9	11.7	15.9	15.2	13.5
R13-4187RY	.	13.5	14.9	11.7	15.0	13.9	14.0
R13-4244	.	12.1	12.6	11.5	14.2	13.5	13.2
S14-1658	.	12.7	15.3	13.4	16.6	16.6	15.4
S14-2088	.	14.7	15.1	14.1	16.4	17.4	14.6
S14-2582	.	13.1	13.5	14.1	15.5	15.2	13.3
S14-4034	.	11.6	12.2	13.5	14.0	14.7	12.0
S14-15010	.	13.6	12.5	13.5	16.2	15.1	12.9
S14-15108	.	12.5	12.6	14.1	14.5	15.3	12.5
TN11-5083	.	13.9	14.2	13.7	16.3	14.3	15.1
TN14-5020	.	12.1	11.7	11.3	14.9	13.1	12.0
TN14-5021	.	12.1	11.6	11.9	14.7	13.8	12.8
TN14-5035	.	12.5	12.3	11.9	14.1	13.0	11.4
TN15-4011	.	12.0	12.3	12.7	16.2	15.4	12.4
TN15-4037	.	14.3	15.0	14.1	17.9	16.9	14.7
V12-0214R2	.	13.9	13.3	14.8	17.0	15.1	13.6
V12-0253R2	.	12.9	14.3	12.7	14.8	13.8	13.2
V12-0963	.	10.2	10.4	11.4	12.1	12.7	10.1
Mean	.	12.5	12.9	12.5	15.4	14.6	12.7
LSD(0.05)	.	0.9	.	1.4	.	.	0.9
CV(%)	.	3.5	.	5.2	.	.	3.5

**TABLE 42 - SEED SIZE (GRAMS PER 100 SEED) (continued)  
PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	12.6	14.4	10.2	12.1
AG 4632RR2Y	15.2	12.7	12.4	14.2
AG 4835	14.8	9.8	11.1	12.4
DA10x05-20F	11.2	15.9	14.3	15.1
DA10x16-09F	16.7	15.1	12.4	14.9
DA10x30-09F	11.2	11.8	10.7	11.4
DA10x30-48F	11.5	11.8	10.4	11.5
DA10x34-12F	11.6	11.5	12.3	12.9
DA10x35-17F	12.3	12.0	11.2	12.1
K14-1715	12.3	12.6	10.5	12.3
K14-1717	15.0	16.6	13.4	15.4
K14-1719	15.2	15.5	11.8	14.4
K14-1730	12.6	13.1	9.3	11.7
K14-1736	12.4	14.4	10.0	12.3
K14-1737	12.6	15.1	10.3	12.9
R10-298	14.6	15.5	11.2	14.0
R10-1809	12.8	12.4	11.0	12.9
R13-354	11.7	12.3	10.0	11.6
R13-1724	13.6	15.7	11.6	13.5
R13-4187RY	12.6	15.0	9.5	13.3
R13-4244	14.0	14.1	10.6	12.8
S14-1658	15.0	15.5	12.4	14.7
S14-2088	14.5	14.8	11.9	14.8
S14-2582	13.4	14.9	12.0	13.9
S14-4034	12.5	13.7	11.2	12.8
S14-15010	13.5	12.8	12.3	13.6
S14-15108	13.7	12.1	11.6	13.2
TN11-5083	15.4	16.9	11.2	14.5
TN14-5020	11.9	14.1	10.0	12.3
TN14-5021	12.9	13.7	9.9	12.6
TN14-5035	12.0	14.4	10.5	12.5
TN15-4011	12.5	17.2	9.4	13.3
TN15-4037	16.2	16.0	13.1	15.3
V12-0214R2	13.5	15.6	12.4	14.4
V12-0253R2	12.8	15.7	10.9	13.4
V12-0963	10.0	10.8	8.7	10.7
Mean	13.2	14.0	11.2	13.2
LSD(0.05)	.	.	0.8	0.8
CV(%)	.	.	3.6	6.8

**TABLE 43 - OIL (%)†**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	.	19.4	18.4	20.5	18.3	18.1	19.5
AG 4632RR2Y	.	21.1	20.3	20.2	19.2	19.4	20.6
AG 4835	.	19.4	18.4	19.2	18.6	18.2	20.0
DA10x05-20F	.	19.4	19.2	19.5	18.8	18.8	19.9
DA10x16-09F	.	18.9	18.7	19.8	19.2	.	19.1
DA10x30-09F	.	18.1	17.4	19.4	18.0	18.0	17.9
DA10x30-48F	.	18.5	18.0	.	18.4	18.3	18.9
DA10x34-12F	.	19.6	18.8	.	18.6	18.6	20.6
DA10x35-17F	.	20.4	19.8	20.5	19.3	19.5	20.2
K14-1715	.	19.0	18.4	19.9	17.8	18.4	19.3
K14-1717	.	18.7	18.4	20.3	17.9	18.1	19.9
K14-1719	.	19.0	18.7	20.2	17.6	18.6	19.7
K14-1730	.	19.3	18.8	20.6	18.5	18.9	19.8
K14-1736	.	19.4	18.6	20.5	19.3	19.6	19.9
K14-1737	.	18.8	18.4	20.3	18.4	18.6	20.0
R10-298	.	20.0	19.4	20.8	18.9	19.1	20.1
R10-1809	.	20.0	19.1	20.2	18.7	18.8	20.4
R13-354	.	19.2	18.3	20.3	17.9	17.6	18.7
R13-1724	.	20.4	19.8	21.4	18.9	19.4	20.7
R13-4187RY	.	18.6	18.2	19.5	18.1	18.5	19.3
R13-4244	.	18.0	17.7	19.1	18.0	17.7	17.9
S14-1658	.	20.0	19.7	21.6	19.1	19.3	20.9
S14-2088	.	20.4	20.0	20.0	19.2	20.2	20.5
S14-2582	.	19.4	19.1	20.4	18.7	18.5	20.0
S14-4034	.	19.0	18.2	20.5	17.4	18.5	19.5
S14-15010	.	20.2	19.4	19.2	18.9	19.5	20.5
S14-15108	.	20.4	19.5	20.5	19.3	19.0	20.5
TN11-5083	.	20.5	20.3	20.8	19.6	19.4	20.5
TN14-5020	.	19.4	18.6	20.2	19.1	19.3	20.3
TN14-5021	.	19.3	18.6	20.5	19.2	19.0	19.9
TN14-5035	.	19.4	18.8	20.3	19.1	18.7	19.9
TN15-4011	.	20.3	19.5	21.4	19.3	19.1	20.4
TN15-4037	.	18.8	19.2	19.6	18.8	19.2	18.7
V12-0214R2	.	19.5	19.2	20.0	18.7	19.2	19.6
V12-0253R2	.	19.9	19.2	20.3	19.4	19.4	20.7
V12-0963	.	19.4	18.8	19.7	18.1	19.0	19.8
Mean	.	19.5	18.9	20.2	18.7	18.8	19.8
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 43 - OIL (%)† (continued)**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	19.0	19.0	19.2	19.0
AG 4632RR2Y	19.7	19.9	19.9	20.0
AG 4835	18.6	18.5	20.1	19.0
DA10x05-20F	18.3	19.8	19.5	19.2
DA10x16-09F	20.0	18.9	19.2	19.2
DA10x30-09F	17.7	18.2	18.8	18.2
DA10x30-48F	18.4	18.9	19.4	18.7
DA10x34-12F	19.6	19.7	19.3	19.5
DA10x35-17F	20.2	20.7	20.0	20.1
K14-1715	19.0	19.0	19.2	18.9
K14-1717	18.7	18.8	20.0	19.0
K14-1719	19.3	19.1	20.1	19.1
K14-1730	19.8	19.4	19.5	19.4
K14-1736	19.7	20.2	19.8	19.7
K14-1737	19.2	19.3	19.8	19.2
R10-298	19.8	19.7	19.9	19.7
R10-1809	19.7	19.5	19.7	19.6
R13-354	18.7	19.3	18.9	18.8
R13-1724	20.2	20.1	20.6	20.2
R13-4187RY	17.6	18.9	19.1	18.6
R13-4244	18.0	17.8	18.5	18.1
S14-1658	20.1	20.0	20.2	20.1
S14-2088	20.3	19.7	20.2	20.1
S14-2582	19.2	19.3	19.2	19.3
S14-4034	19.0	19.5	19.0	19.0
S14-15010	19.8	19.7	20.6	19.8
S14-15108	19.9	20.2	20.6	20.0
TN11-5083	20.7	20.3	20.3	20.3
TN14-5020	19.1	19.5	19.6	19.5
TN14-5021	19.4	19.8	19.8	19.5
TN14-5035	19.5	19.5	19.7	19.4
TN15-4011	20.0	19.8	20.6	20.0
TN15-4037	19.1	19.2	19.1	19.1
V12-0214R2	19.4	19.6	19.4	19.4
V12-0253R2	19.8	20.0	19.7	19.8
V12-0963	18.6	19.0	19.8	19.1
Mean	19.3	19.4	19.7	19.4
LSD	.	.	.	0.3
CV	.	.	.	1.9

**TABLE 44 - PROTEIN (%)†**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Carbondale, IL</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
Ellis	.	36.3	36.8	34.3	35.6	35.8	34.4
AG 4632RR2Y	.	33.1	34.8	33.8	34.0	35.2	33.1
AG 4835	.	36.2	37.0	35.9	35.6	35.3	33.8
DA10x05-20F	.	36.4	36.4	35.6	35.7	36.2	34.4
DA10x16-09F	.	39.0	38.6	37.0	36.2	.	36.5
DA10x30-09F	.	38.2	38.6	36.2	35.4	37.1	36.6
DA10x30-48F	.	39.1	39.5	.	36.7	37.6	37.2
DA10x34-12F	.	36.5	36.7	.	34.5	36.1	33.1
DA10x35-17F	.	35.7	37.0	34.7	34.6	35.5	35.0
K14-1715	.	36.9	37.7	35.6	35.9	35.7	34.9
K14-1717	.	36.9	37.8	35.1	37.4	36.5	34.7
K14-1719	.	36.9	37.8	35.5	37.6	36.6	35.2
K14-1730	.	36.4	38.2	35.3	36.6	35.4	35.2
K14-1736	.	37.1	38.1	34.8	36.5	35.9	35.3
K14-1737	.	36.7	38.0	35.3	37.2	36.1	34.3
R10-298	.	36.5	37.5	35.0	35.8	36.5	34.3
R10-1809	.	35.6	36.8	35.3	35.8	35.6	33.7
R13-354	.	36.0	37.4	34.3	35.2	36.3	35.2
R13-1724	.	35.7	36.7	34.1	35.5	35.2	34.0
R13-4187RY	.	38.0	38.1	35.7	36.5	35.9	35.5
R13-4244	.	38.6	38.4	36.4	36.9	38.0	37.2
S14-1658	.	38.0	37.2	35.6	35.4	36.5	35.0
S14-2088	.	37.1	36.6	36.6	35.8	36.2	35.0
S14-2582	.	38.3	38.2	36.6	36.4	37.8	35.6
S14-4034	.	37.0	37.1	34.9	36.0	35.8	34.8
S14-15010	.	36.2	37.3	35.5	35.9	35.9	34.0
S14-15108	.	36.3	37.5	35.7	35.1	36.3	34.8
TN11-5083	.	37.6	37.1	35.2	34.8	36.3	35.1
TN14-5020	.	36.6	36.9	35.2	35.5	35.0	33.8
TN14-5021	.	36.7	37.0	35.2	35.0	35.9	34.2
TN14-5035	.	36.6	36.8	35.5	35.5	35.7	34.2
TN15-4011	.	34.9	35.0	33.1	34.5	34.5	33.4
TN15-4037	.	37.5	37.0	35.8	35.9	36.1	36.6
V12-0214R2	.	37.3	36.5	36.0	36.0	35.9	35.1
V12-0253R2	.	37.1	38.2	35.1	36.1	36.3	34.7
V12-0963	.	37.3	38.5	36.3	35.6	35.8	35.2
Mean	.	36.8	37.4	35.4	35.8	36.1	34.9
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.



**TABLE 44 - PROTEIN (%)† (continued)**  
**PRELIMINARY GROUP IV-S-LATE 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
Ellis	35.0	35.7	33.2	35.2
AG 4632RR2Y	33.4	33.9	33.0	33.8
AG 4835	36.6	35.6	32.7	35.4
DA10x05-20F	35.4	35.0	33.8	35.4
DA10x16-09F	34.4	37.5	35.1	36.8
DA10x30-09F	37.5	36.9	34.7	36.8
DA10x30-48F	38.1	36.9	34.4	37.4
DA10x34-12F	35.4	35.7	32.9	35.1
DA10x35-17F	35.8	35.0	33.6	35.2
K14-1715	36.0	37.0	34.1	36.0
K14-1717	36.2	37.4	33.8	36.2
K14-1719	36.2	36.8	34.1	36.3
K14-1730	35.3	36.1	34.6	35.9
K14-1736	36.3	36.2	34.2	36.0
K14-1737	35.6	36.4	34.5	36.0
R10-298	36.0	35.9	32.9	35.6
R10-1809	35.1	35.5	33.6	35.2
R13-354	35.8	35.5	34.0	35.5
R13-1724	35.1	35.7	32.1	34.9
R13-4187RY	36.4	36.2	34.8	36.3
R13-4244	38.0	37.6	34.7	37.3
S14-1658	36.3	36.9	33.8	36.1
S14-2088	35.7	36.4	35.7	36.1
S14-2582	37.7	36.7	34.8	36.9
S14-4034	36.6	35.7	33.4	35.7
S14-15010	35.9	35.8	33.5	35.6
S14-15108	35.7	35.7	34.5	35.7
TN11-5083	36.2	36.3	34.1	35.9
TN14-5020	35.9	35.4	33.3	35.3
TN14-5021	35.5	35.0	33.3	35.3
TN14-5035	35.4	35.5	33.5	35.4
TN15-4011	34.2	35.1	32.7	34.2
TN15-4037	37.5	36.9	34.5	36.4
V12-0214R2	35.7	35.9	34.3	35.9
V12-0253R2	36.0	36.6	34.8	36.1
V12-0963	37.1	37.5	35.1	36.5
Mean	36.0	36.1	33.9	35.8
LSD	.	.	.	0.5
CV	.	.	.	1.5

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**TABLE 45 - PARENTAGE OF ENTRIES  
UNIFORM GROUP V 2016**

<i>Ent</i>	<i>Strain/Variety</i>	<i>Parentage</i>	<i>Source</i>	<i>Fn</i>	<i>Trans- genic†</i>	<i>Special Traits‡</i>
1	OSAGE	Hartz 5545 x KS4895			Conv	
2	Ellis	5002T x 5601T			Conv	
3	JTN-5203	R93-171 x Anand	Arelli	F17	Conv	SCN, FLS
4	S11-20124	S05-11482 x S06-4649RR	Shannon		Conv	
5	UA 5612	Commercial check			Conv	
6	AG 5534RR2	Commercial check			RR2	
7	AG 5335	Commercial check			RR2	
8	DA08x41-193F	DB04-10997 x DB00-087	Gillen	F5	Conv	
9	DA09x39-17F	R01-976 x DB00-087	Gillen	F5	Conv	
10	DA09x39-26F	R01-976 x DB00-087	Gillen	F5	Conv	
11	JTN-5110	J98-32 x Anand	Arelli	F14	Conv	SCN, FLS
12	K13-1830	DS-880 / R04-357	Schapaugh	F4	Conv	
13	R12-2069	R01-976 x NCC02-307	Chen	F5	Conv	
14	R12-2142	R05-235 x R02-3065	Chen	F3	Conv	
15	R12-7448RY	R06-4222 x UA 4805 [R2Y1 (F2)]	Chen	F3	RR2	
16	R13-9687	R05-5366 x Osage	Chen	F5	Conv	
17	R13-13997	S07-2680 x R08-409	Chen	F4	Conv	
18	S11-16653	S07-2680 x LG04-6000	Shannon		Conv	
19	S11-17025	S05-11268 x S05-11482	Shannon		Conv	
20	S12-4718	S05-11482 x S09-318 F1	Shannon		Conv	
21	S13-12611	K07-1633 x S07-10311RR1	Shannon		RR1	
22	S13-14616	S08-17361 x S08-9727RR	Shannon		RR1	
23	TN11-5102	Hutcheson x TN89-39	Pantalone		Conv	High Protein
24	TN12-5507R2	TN02-226 x MON RR2Y	Pantalone		RR2	
25	TN13-4508R2	TN02-226 x MON RR2Y	Pantalone		RR2	
26	V10-0262	R02-2363 x V98-2711	Zhang		Conv	
27	V11-0730	V03-7833 x V02-8659	Zhang		Conv	
28	V11-3485	V98-2711 x Schillinger 495	Zhang		RR1	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 46 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST V 2016**

STRAIN/ VARIETY	RANK	AVG.		YIELD <sup>†</sup>			PROTEIN <sup>‡</sup>			OIL <sup>‡</sup>	
		RANK	2016	15-16	14-16	2016	15-16	14-16	2016	15-16	14-16
OSAGE	28	22	51.2	54.4	55.3	37.5	37.5	37.3	18.9	18.6	18.5
Ellis	7	12	60.3	60.0	59.4	35.1	35.2	34.9	19.3	18.9	18.9
JTN-5203	18	16	57.5	55.9	55.9	35.2	35.3	35.2	19.5	19.2	19.2
S11-20124	14	15	58.4	59.4	59.8	34.4	34.1	33.9	20.3	20.0	20.1
UA 5612	4	9	61.5	59.1	.	35.6	35.4	.	19.3	19.1	.
AG 5534RR2	25	19	54.8	54.7	55.8	34.7	34.9	34.7	20.5	20.1	20.0
AG 5335	8	12	59.8	57.5	.	35.9	35.9	.	19.9	19.5	.
DA08x41-193F	27	21	54.0	.	.	36.0	.	.	19.4	.	.
DA09x39-17F	21	17	57.1	.	.	36.2	.	.	19.1	.	.
DA09x39-26F	19	16	57.2	.	.	35.4	.	.	19.4	.	.
JTN-5110	20	18	57.1	55.9	55.9	35.9	35.8	35.8	19.7	19.5	19.4
K13-1830	6	11	60.6	.	.	35.0	.	.	19.2	.	.
R12-2069	17	15	58.0	.	.	34.4	.	.	18.9	.	.
R12-2142	15	14	58.3	58.5	.	35.6	35.5	.	19.9	19.5	.
R12-7448RY	5	11	60.7	.	.	35.5	.	.	18.8	.	.
R13-9687	9	12	59.6	.	.	36.1	.	.	18.6	.	.
R13-13997	2	7	63.5	.	.	35.7	.	.	19.9	.	.
S11-16653	3	10	62.2	60.5	.	35.5	35.2	.	19.8	19.5	.
S11-17025	10	13	59.6	59.5	.	35.7	35.8	.	19.6	19.2	.
S12-4718	1	7	64.4	.	.	35.1	.	.	19.8	.	.
S13-12611	23	17	56.1	.	.	36.2	.	.	19.9	.	.
S13-14616	12	13	59.3	.	.	35.2	.	.	19.9	.	.
TN11-5102	11	12	59.6	58.7	58.3	36.8	36.8	36.6	19.0	18.7	18.8
TN12-5507R2	13	15	59.2	.	.	33.7	.	.	19.6	.	.
TN13-4508R2	22	18	56.5	.	.	33.9	.	.	19.5	.	.
V10-0262	16	15	58.1	58.4	.	37.1	37.0	.	19.2	18.9	.
V11-0730	24	19	55.0	.	.	35.9	.	.	20.1	.	.
V11-3485	26	21	54.1	.	.	36.2	.	.	19.0	.	.
Mean	.	.	58.4	.	.	35.6	.	.	19.5	.	.
LSD(0.05)	.	.	4.2	.	.	0.5	.	.	0.3	.	.
CV(%)	.	.	12.5	.	.	1.7	.	.	1.7	.	.

†Data not included in mean: 2016 - Kinston, VA; Knoxville, TN; Warsaw, VA  
2015 - Orange, VA; Springfield, TN; Bossier City, LA  
2014 - Starkville, MS; Bossier City, LA

‡Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.

**TABLE 47 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST V 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LODGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
OSAGE	0	1.4	25	1.4	12.5	P	G	T
Ellis	-1	1.4	28	1.6	12.2	W	G	T
JTN-5203	-3	1.4	29	1.7	12.2	W	G	T
S11-20124	-1	2.8	35	1.6	12.4	W	T	T
UA 5612	3	2.1	35	1.7	12.4	P	G	T
AG 5534RR2	3	1.5	33	1.7	15.2	W	T	T
AG 5335	0	1.6	38	1.7	14.2	W	G	T
DA08x41-193F	-3	1.6	31	1.5	11.7	P	T	T
DA09x39-17F	0	1.6	31	1.7	13.4	P	S	T
DA09x39-26F	-1	1.7	31	1.5	12.8	P	T	T
JTN-5110	1	1.9	32	1.8	14.4	P	T	T
K13-1830	1	1.5	27	1.6	12.2	P	G	T
R12-2069	4	1.6	33	1.3	12.6	W	G	T
R12-2142	4	1.8	32	1.6	15.7	P	T	T
R12-7448RY	7	2.1	34	1.8	12.2	P	G	T
R13-9687	1	1.5	30	1.6	12.7	P	T	T
R13-13997	3	1.7	33	1.6	14.9	W	T	T
S11-16653	0	1.7	31	1.5	15.0	W	G	T
S11-17025	0	2.1	30	1.7	12.8	W	T	T
S12-4718	0	1.7	30	1.5	14.0	W	Lt	T
S13-12611	-3	2.0	36	1.9	12.9	W	T	T
S13-14616	4	1.9	39	1.7	15.6	W	T	T
TN11-5102	1	1.6	32	1.5	13.5	W	G	T
TN12-5507R2	-2	1.7	38	1.6	11.8	P	Lt	T
TN13-4508R2	-1	1.7	38	1.7	11.9	P	Lt	T
V10-0262	1	1.6	30	1.5	13.7	W	T	T
V11-0730	-3	1.4	25	1.8	12.9	W	T	T
V11-3485	1	1.8	29	1.7	13.8	P	T	T
Mean	1	1.7	32	1.6	13.3	.	.	.
LSD(0.05)	2	0.3	2	0.3	0.5	.	.	.
CV(%)	380	31.0	11	29.0	6.6	.	.	.

**TABLE 48 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST V 2016**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS1	SDS2	SDS	FLS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX	DX	MEAN	SCORE
OSAGE	4	4	5	4.8	5.0	MR	2.0	0.6	6.7	3.6	.
Ellis	5	5	5	1.5	1.0	R	1.0	8.3	15.6	11.9	.
JTN-5203	1	2	1	5.0	5.0	SS	3.0	0.0	0.6	0.3	.
S11-20124	1	2	1	1.3	1.0	S	5.0	0.6	1.7	1.1	.
UA 5612	5	4	5	3.3	5.0	MR	2.0	1.7	12.2	6.9	.
AG 5534RR2	5	5	5	5.0	3.0	MR	2.0	6.7	20.6	13.6	.
AG 5335	5	3	5	4.5	5.0	R	1.0	4.2	3.3	3.7	.
DA08x41-193F	5	1	4	4.5	1.0	R	1.0	21.7	8.3	15.0	.
DA09x39-17F	5	4	5	4.0	1.0	MS	4.0	5.8	30.6	18.2	.
DA09x39-26F	5	2	5	3.5	5.0	MS	4.0	0.3	2.6	1.4	.
JTN-5110	1	1	1	4.8	5.0	MS	4.0	0.8	10.0	5.4	.
K13-1830	3	3	4	4.8	4.8	MS	4.0	1.7	0.6	1.1	.
R12-2069	5	3	5	2.5	1.0	R	1.0	21.1	25.6	23.3	.
R12-2142	5	4	5	4.0	1.0	R	1.0	15.8	33.3	24.6	.
R12-7448RY	5	2	5	4.8	1.5	R	1.0	0.0	10.8	5.4	.
R13-9687	5	2	3	2.8	4.3	R	1.0	0.0	5.8	2.9	.
R13-13997	5	1	5	3.5	1.0	R	1.0	16.7	30.0	23.3	.
S11-16653	2	1	1	4.3	1.0	R	1.0	27.2	42.2	34.7	.
S11-17025	1	1	1	4.5	1.0	MS	4.0	0.0	2.2	1.1	.
S12-4718	4	4	3	1.5	5.0	R	1.0	0.3	4.5	2.4	.
S13-12611	5	2	5	4.8	2.0	R	1.0	0.0	2.5	1.3	.
S13-14616	5	2	5	5.0	5.0	R	1.0	1.9	27.8	14.9	.
TN11-5102	5	3	5	3.8	1.0	MR	2.0	8.9	13.6	11.3	.
TN12-5507R2	1	1	1	2.5	5.0	S	5.0	0.0	0.1	0.0	.
TN13-4508R2	1	1	1	2.5	5.0	MS	4.0	0.1	6.7	3.4	.
V10-0262	4	2	5	4.8	4.8	MR	2.0	4.4	13.3	8.9	.
V11-0730	4	2	5	5.0	5.0	MR	2.0	6.7	38.9	22.8	.
V11-3485	5	1	5	5.0	5.0	MR	2.0	70.6	66.9	68.8	.
Mean								16.8	9.0	11.8	
P>F								<.0001	<.0001		
LSD(0.05)								17.8	16.0		

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 49 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA ‡</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN ‡</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	42.1	32.6	43.7	60.1	24.8	50.8	64.9
Ellis	41.9	60.3	49.1	77.7	29.8	53.7	81.5
JTN-5203	34.8	62.0	55.0	72.9	12.3	54.1	67.9
S11-20124	43.8	58.1	47.8	76.6	16.9	56.4	55.9
UA 5612	46.8	53.4	57.0	71.8	31.0	51.2	74.4
AG 5534RR2	44.4	53.7	49.5	72.8	34.4	51.1	64.5
AG 5335	44.5	56.7	53.3	74.6	27.2	51.3	64.2
DA08x41-193F	39.8	64.9	32.1	67.4	31.0	50.8	62.2
DA09x39-17F	40.6	52.4	46.8	80.5	27.1	48.4	62.4
DA09x39-26F	49.0	54.5	48.3	83.1	31.9	50.3	58.4
JTN-5110	40.1	56.3	51.9	68.0	21.7	49.7	68.5
K13-1830	41.3	53.7	47.8	78.4	23.9	51.3	72.5
R12-2069	44.3	55.6	43.9	76.4	31.7	52.6	68.3
R12-2142	43.0	56.3	39.8	73.5	23.8	50.7	76.4
R12-7448RY	50.0	50.2	54.1	67.3	34.5	55.5	66.9
R13-9687	42.2	63.6	54.2	77.3	31.0	51.2	68.7
R13-13997	50.2	56.3	52.9	83.1	23.9	51.9	78.0
S11-16653	40.1	50.2	54.3	74.9	31.8	55.5	74.2
S11-17025	36.4	51.5	47.7	79.0	27.0	49.9	62.9
S12-4718	43.0	50.6	51.3	83.2	34.5	55.3	76.8
S13-12611	44.2	47.7	41.9	64.0	25.6	52.9	59.9
S13-14616	45.4	54.5	54.7	70.8	28.5	50.6	63.0
TN11-5102	43.7	46.9	48.8	73.9	30.2	53.1	68.8
TN12-5507R2	37.3	55.2	47.9	68.5	26.7	47.6	76.2
TN13-4508R2	35.2	53.0	45.8	74.2	25.6	50.8	64.2
V10-0262	42.1	59.8	45.1	73.0	26.1	48.6	72.1
V11-0730	35.4	49.9	50.0	57.3	24.6	46.4	60.3
V11-3485	42.7	67.8	41.3	64.5	29.9	50.3	73.2
Mean	42.3	54.6	48.4	73.0	27.4	51.5	68.1
LSD(0.05)	8.0	15.8	9.1	7.6	7.7	4.8	15.3
CV(%)	11.6	17.7	11.4	6.3	17.2	5.7	13.8

‡ Data not included in test mean due to CV > 15%.

**TABLE 49 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS ‡</b>	<b>Stoneville, MS</b>
OSAGE	47.6	33.5	62.6	44.9	43.0	40.9	76.6
Ellis	54.9	40.8	75.4	58.7	55.9	47.2	74.0
JTN-5203	65.1	35.8	72.7	52.8	58.4	37.3	66.6
S11-20124	66.8	36.6	71.0	57.0	54.5	46.2	69.3
UA 5612	52.2	42.0	82.3	63.3	54.7	45.6	73.7
AG 5534RR2	47.9	32.0	68.7	57.3	44.1	43.8	63.1
AG 5335	60.3	42.0	91.1	54.1	45.0	39.6	66.8
DA08x41-193F	52.3	36.7	70.3	56.3	56.1	39.0	63.9
DA09x39-17F	47.9	40.0	78.2	60.2	51.4	37.3	64.9
DA09x39-26F	51.2	38.1	57.2	60.7	53.1	43.5	73.2
JTN-5110	66.3	37.2	68.7	54.3	59.1	46.0	58.0
K13-1830	61.2	39.9	74.4	59.5	61.1	44.0	73.4
R12-2069	49.6	39.4	76.4	60.4	52.7	46.6	70.6
R12-2142	50.0	42.5	69.6	56.6	62.5	41.5	65.1
R12-7448RY	55.3	38.3	74.3	60.1	62.4	48.0	66.7
R13-9687	53.5	37.6	69.9	60.3	55.0	52.9	78.3
R13-13997	56.6	42.2	84.1	59.4	66.8	49.3	80.0
S11-16653	64.9	36.4	81.6	59.3	66.2	54.9	72.9
S11-17025	63.6	40.7	73.0	60.9	61.2	45.9	70.1
S12-4718	64.5	38.2	82.6	61.0	56.0	45.2	82.2
S13-12611	50.5	31.1	74.7	53.7	58.0	44.9	74.2
S13-14616	50.0	41.3	84.3	57.8	61.4	56.2	66.0
TN11-5102	63.3	41.1	65.6	57.8	59.4	42.5	69.1
TN12-5507R2	70.2	40.1	79.8	55.2	58.8	50.1	65.6
TN13-4508R2	66.6	37.9	73.7	53.6	60.9	43.2	61.3
V10-0262	43.8	39.5	79.4	60.0	56.2	37.2	70.9
V11-0730	53.1	32.8	77.7	56.6	65.2	35.9	74.2
V11-3485	52.3	38.4	67.3	53.5	54.2	29.8	62.5
Mean	56.5	38.3	74.5	57.3	56.9	44.1	69.8
LSD(0.05)	9.7	6.7	14.5	7.8	11.8	11.7	10.3
CV(%)	10.5	10.6	11.9	8.3	12.6	16.2	9.0

‡ Data not included in test mean due to CV > 15%.



**TABLE 49 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA ‡</b>	<b>Warsaw, VA ‡</b>	<b>Test Mean</b>
OSAGE	41.0	55.9	47.4	51.2
Ellis	59.5	44.0	53.2	60.3
JTN-5203	53.9	41.9	44.9	57.5
S11-20124	64.6	54.3	50.5	58.4
UA 5612	69.0	59.2	58.3	61.5
AG 5534RR2	62.4	37.8	58.3	54.8
AG 5335	70.9	57.2	67.5	59.8
DA08x41-193F	60.8	38.4	55.4	54.0
DA09x39-17F	63.3	51.2	57.0	57.1
DA09x39-26F	64.1	48.8	54.9	57.2
JTN-5110	63.4	44.2	51.2	57.1
K13-1830	66.7	47.3	57.2	60.6
R12-2069	61.8	61.8	54.0	58.0
R12-2142	69.7	61.8	51.4	58.3
R12-7448RY	77.5	60.3	57.5	60.7
R13-9687	67.6	56.4	52.9	59.6
R13-13997	57.4	53.9	53.8	63.5
S11-16653	65.6	31.4	60.1	62.2
S11-17025	69.7	34.8	61.4	59.6
S12-4718	78.9	50.8	59.2	64.4
S13-12611	69.4	41.6	48.6	56.1
S13-14616	66.4	48.6	62.3	59.3
TN11-5102	70.4	41.6	52.5	59.6
TN12-5507R2	63.2	41.3	50.9	59.2
TN13-4508R2	53.6	40.9	50.8	56.5
V10-0262	67.2	48.6	51.2	58.1
V11-0730	49.1	38.5	44.7	55.0
V11-3485	49.4	45.8	53.1	54.1
Mean	63.5	47.8	54.3	58.4
LSD(0.05)	10.5	13.0	15.0	4.2
CV(%)	9.7	16.4	16.9	12.5

‡ Data not included in test mean due to CV > 15%.

**TABLE 50 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>
OSAGE	9/22	9/26	9/27	9/24	10/18	10/13	9/27
Ellis	-2	7	-1	-4	0	-4	-2
JTN-5203	-6	1	0	-5	1	-6	-1
S11-20124	-2	1	1	-3	1	-5	-1
UA 5612	1	5	6	1	2	5	4
AG 5534RR2	0	2	7	4	6	-1	3
AG 5335	0	7	7	-2	-1	-2	-3
DA08x41-193F	-5	0	0	-1	-1	-8	-2
DA09x39-17F	-3	7	-1	-3	4	-1	3
DA09x39-26F	-2	3	-4	-3	0	-3	0
JTN-5110	-5	6	3	-3	2	-1	3
K13-1830	-2	4	1	-4	2	1	-1
R12-2069	1	8	6	3	3	3	9
R12-2142	2	9	4	3	6	7	8
R12-7448RY	4	9	10	8	6	7	9
R13-9687	0	2	7	1	-1	-2	1
R13-13997	0	8	5	-2	5	3	6
S11-16653	-4	3	2	-2	2	-5	2
S11-17025	-4	-1	2	-1	1	-4	-1
S12-4718	-2	5	1	-3	3	-2	2
S13-12611	-3	2	0	-3	-3	-8	-3
S13-14616	2	9	10	2	4	6	7
TN11-5102	-1	8	3	-3	1	1	1
TN12-5507R2	-3	8	0	-4	-4	-2	-3
TN13-4508R2	-2	7	0	-2	-3	-2	-3
V10-0262	1	5	1	2	3	2	3
V11-0730	-6	3	-3	-6	-3	-7	-3
V11-3485	-1	1	2	-1	6	2	3
Mean	-2	5	2	-1	1	-1	1
LSD(0.05)	2	4	4	2	3	4	2
CV(%)	88	49	107	121	115	230	84

**TABLE 50 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	10/4	10/1	9/20	10/2	10/19	10/2
Ellis	0	0	-1	1	-3	-1
JTN-5203	-1	0	-5	-5	-4	-3
S11-20124	-1	-1	0	-2	-1	-1
UA 5612	2	1	5	2	1	3
AG 5534RR2	2	1	4	3	2	3
AG 5335	0	-2	-2	-3	1	0
DA08x41-193F	-2	-2	-5	-5	-1	-3
DA09x39-17F	1	-1	1	-1	-1	0
DA09x39-26F	-2	-2	-1	0	-2	-1
JTN-5110	1	0	4	1	-2	1
K13-1830	0	-1	5	4	-1	1
R12-2069	3	3	4	3	0	4
R12-2142	3	4	4	2	3	4
R12-7448RY	7	5	8	3	7	7
R13-9687	2	1	1	1	-2	1
R13-13997	1	2	3	1	1	3
S11-16653	0	0	0	-2	0	0
S11-17025	1	0	0	3	1	0
S12-4718	-1	-1	1	1	0	0
S13-12611	-3	0	0	-7	-4	-3
S13-14616	2	3	2	0	4	4
TN11-5102	1	3	0	1	-1	1
TN12-5507R2	-1	0	-3	-4	-1	-2
TN13-4508R2	-2	-1	3	-4	-2	-1
V10-0262	1	1	1	-3	0	1
V11-0730	-4	-1	4	-2	-9	-3
V11-3485	2	3	0	0	-1	1
Mean	0	0	1	0	-1	1
LSD(0.05)	2	2	1	3	4	2
CV(%)	264	269	59	385	393	380

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**TABLE 51 - PLANT HEIGHT (INCHES)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	22	18	26	23	26	28	37
Ellis	23	22	27	27	33	32	39
JTN-5203	23	24	28	31	29	29	37
S11-20124	30	30	36	32	42	43	40
UA 5612	28	31	35	34	37	39	40
AG 5534RR2	29	24	34	32	34	34	42
AG 5335	31	39	41	41	31	34	43
DA08x41-193F	23	29	26	32	31	34	42
DA09x39-17F	26	25	29	30	32	38	37
DA09x39-26F	28	24	29	33	33	34	39
JTN-5110	29	25	33	33	35	39	39
K13-1830	22	21	24	31	27	30	37
R12-2069	26	26	30	35	34	36	41
R12-2142	27	27	32	34	35	35	39
R12-7448RY	28	29	33	36	37	38	37
R13-9687	26	25	30	32	32	33	38
R13-13997	28	28	34	32	37	36	43
S11-16653	26	25	33	29	38	34	38
S11-17025	23	21	30	32	31	35	38
S12-4718	24	25	28	31	33	35	38
S13-12611	29	39	37	38	33	32	41
S13-14616	33	40	41	43	34	35	43
TN11-5102	27	25	30	32	38	39	39
TN12-5507R2	28	45	41	45	33	34	45
TN13-4508R2	30	40	38	43	35	33	45
V10-0262	24	23	30	31	33	34	42
V11-0730	21	17	25	23	29	29	34
V11-3485	24	19	27	29	35	31	41
Mean	26	27	32	33	34	34	40
LSD(0.05)	2	4	5	4	4	4	4
CV(%)	5	10	9	8	8	7	6

**TABLE 51 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	31	25	24	22	25	.	25
Ellis	35	25	24	24	29	.	30
JTN-5203	37	29	29	25	32	.	32
S11-20124	44	35	28	29	41	.	40
UA 5612	42	34	33	31	40	.	37
AG 5534RR2	39	35	32	31	34	.	36
AG 5335	45	40	41	38	46	.	38
DA08x41-193F	38	35	33	27	33	.	30
DA09x39-17F	38	33	27	30	33	.	32
DA09x39-26F	36	33	31	29	37	.	34
JTN-5110	42	33	26	28	37	.	33
K13-1830	34	26	26	26	31	.	29
R12-2069	42	35	32	31	37	.	34
R12-2142	39	36	30	27	38	.	36
R12-7448RY	42	34	33	30	37	.	36
R13-9687	35	36	31	27	33	.	28
R13-13997	42	33	32	26	38	.	35
S11-16653	40	30	29	28	33	.	32
S11-17025	38	37	26	25	35	.	33
S12-4718	37	30	30	26	35	.	30
S13-12611	43	36	38	34	46	.	36
S13-14616	41	38	40	39	47	.	38
TN11-5102	36	33	28	27	35	.	35
TN12-5507R2	46	40	33	37	47	.	37
TN13-4508R2	45	44	36	36	48	.	41
V10-0262	36	30	28	28	36	.	33
V11-0730	31	26	22	23	30	.	26
V11-3485	33	30	28	27	30	.	35
Mean	39	33	30	29	37	.	34
LSD(0.05)	5	.	5	5	4	.	4
CV(%)	8	.	10	10	7	.	7

**TABLE 51 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	15	20	27	25
Ellis	19	20	32	28
JTN-5203	19	24	31	29
S11-20124	32	24	41	35
UA 5612	31	27	38	35
AG 5534RR2	29	24	37	33
AG 5335	35	29	39	38
DA08x41-193F	26	21	32	31
DA09x39-17F	23	24	32	31
DA09x39-26F	25	26	34	31
JTN-5110	30	22	32	32
K13-1830	23	19	31	27
R12-2069	23	26	37	33
R12-2142	23	22	36	32
R12-7448RY	30	25	39	34
R13-9687	26	23	33	30
R13-13997	23	21	36	33
S11-16653	24	21	36	31
S11-17025	22	24	34	30
S12-4718	24	21	31	30
S13-12611	34	27	35	36
S13-14616	38	29	40	39
TN11-5102	26	26	37	32
TN12-5507R2	36	27	37	38
TN13-4508R2	29	25	38	38
V10-0262	25	22	31	31
V11-0730	18	23	26	25
V11-3485	24	22	34	29
Mean	26	24	35	32
LSD(0.05)	5	6	4	2
CV(%)	13	16	7	11

**TABLE 52 - PLANT LODGING (1-5)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	1.0	1.0	1.0	1.0	1.3	1.0	1.0
Ellis	1.0	1.0	1.0	1.0	2.0	1.0	1.3
JTN-5203	1.0	1.0	1.0	1.0	1.7	1.0	1.0
S11-20124	2.0	1.3	3.3	3.0	4.0	2.3	4.0
UA 5612	1.0	1.0	2.0	1.3	2.3	2.3	3.3
AG 5534RR2	1.0	1.0	1.3	1.0	1.7	1.0	1.3
AG 5335	1.0	1.0	1.7	1.3	2.0	1.0	1.0
DA08x41-193F	1.0	1.0	1.3	1.0	2.0	1.0	1.3
DA09x39-17F	1.0	1.0	2.0	1.0	1.7	1.7	1.0
DA09x39-26F	1.0	1.0	2.0	1.0	2.0	1.0	1.7
JTN-5110	1.0	1.0	1.7	2.0	2.0	1.3	1.7
K13-1830	1.0	1.0	1.0	1.0	1.7	1.0	1.7
R12-2069	1.0	1.0	1.0	1.0	1.7	1.7	2.0
R12-2142	1.0	1.0	1.3	1.7	2.3	1.3	1.7
R12-7448RY	1.0	1.3	2.3	2.0	2.7	1.7	2.3
R13-9687	1.0	1.0	1.0	1.0	1.7	1.0	1.3
R13-13997	1.0	1.0	1.3	1.0	2.3	1.0	2.7
S11-16653	1.0	1.0	1.0	1.0	2.0	1.0	3.3
S11-17025	1.0	1.0	1.7	1.3	2.0	2.3	4.0
S12-4718	1.0	1.0	1.0	1.0	2.3	1.0	2.7
S13-12611	1.0	2.0	1.7	3.0	2.0	1.0	1.7
S13-14616	1.0	2.3	2.0	2.3	2.0	1.0	1.0
TN11-5102	1.0	1.0	1.0	1.0	2.3	1.3	2.0
TN12-5507R2	1.0	2.0	1.7	2.3	1.7	1.0	1.0
TN13-4508R2	1.0	1.3	1.7	2.0	2.0	1.0	1.0
V10-0262	1.0	1.0	1.7	1.0	1.7	1.0	1.0
V11-0730	1.0	1.0	1.0	1.0	1.7	1.0	1.0
V11-3485	1.0	1.0	1.3	1.0	3.7	1.0	2.3
Mean	1.0	1.2	1.5	1.4	2.1	1.3	1.8
LSD(0.05)	.	0.5	0.8	0.5	0.7	0.6	1.0
CV(%)	0.0	25.0	31.2	22.5	20.5	31.7	34.2



**TABLE 52 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	2.0	1.7	2.0	2.3	1.0	.	2.0
Ellis	1.3	2.0	2.0	2.0	1.0	.	2.0
JTN-5203	2.3	2.2	2.3	2.0	1.0	.	2.0
S11-20124	3.7	3.0	2.3	3.0	1.5	.	4.0
UA 5612	3.7	3.2	2.3	3.0	1.0	.	2.7
AG 5534RR2	1.3	2.0	2.3	3.0	1.0	.	2.3
AG 5335	1.7	1.7	3.0	2.7	1.0	.	2.7
DA08x41-193F	2.3	3.2	3.0	2.3	1.0	.	2.0
DA09x39-17F	2.3	2.5	3.0	2.0	1.0	.	2.0
DA09x39-26F	2.3	2.7	3.0	2.7	1.0	.	2.0
JTN-5110	4.3	2.5	2.7	3.0	1.5	.	2.0
K13-1830	2.7	2.0	2.3	2.0	1.0	.	2.0
R12-2069	2.7	2.5	2.3	2.3	1.0	.	2.0
R12-2142	2.7	3.2	2.3	3.0	1.0	.	2.7
R12-7448RY	3.3	2.5	2.7	3.0	1.3	.	2.0
R13-9687	1.7	2.0	3.0	2.7	1.0	.	2.0
R13-13997	2.7	2.5	2.7	3.0	1.0	.	2.0
S11-16653	2.3	2.7	2.3	3.0	1.0	.	2.0
S11-17025	4.3	2.5	2.3	2.7	1.2	.	2.7
S12-4718	3.3	2.0	2.3	3.0	1.0	.	2.0
S13-12611	3.3	3.2	3.3	3.0	1.2	.	2.7
S13-14616	1.7	2.0	3.0	3.0	1.0	.	3.0
TN11-5102	1.7	2.2	2.3	2.7	1.0	.	2.0
TN12-5507R2	1.7	2.0	2.7	3.0	1.0	.	2.7
TN13-4508R2	1.7	2.0	3.0	3.0	1.0	.	3.0
V10-0262	2.3	2.5	3.0	2.3	1.0	.	2.3
V11-0730	2.3	2.0	2.3	2.0	1.0	.	2.0
V11-3485	2.3	2.7	3.0	2.7	1.0	.	2.7
Mean	2.5	2.4	2.6	2.7	1.1	.	2.3
LSD(0.05)	1.2	0.6	0.7	0.6	0.3	.	0.5
CV(%)	30.1	12.8	17.3	13.0	19.8	.	13.4

**TABLE 52 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	1.0	1.0	1.3	1.4
Ellis	1.0	1.0	1.5	1.4
JTN-5203	1.0	1.0	1.2	1.4
S11-20124	3.3	1.0	3.3	2.8
UA 5612	1.7	1.0	2.2	2.1
AG 5534RR2	1.3	1.0	1.8	1.5
AG 5335	1.7	1.0	1.5	1.6
DA08x41-193F	1.0	1.0	1.4	1.6
DA09x39-17F	1.3	1.0	1.5	1.6
DA09x39-26F	1.0	1.0	1.3	1.7
JTN-5110	1.7	1.0	1.7	1.9
K13-1830	1.0	1.0	1.5	1.5
R12-2069	1.0	1.0	1.8	1.6
R12-2142	1.0	1.0	1.8	1.8
R12-7448RY	2.7	1.0	2.0	2.1
R13-9687	1.3	1.0	1.6	1.5
R13-13997	1.0	1.0	1.7	1.7
S11-16653	1.0	1.0	2.2	1.7
S11-17025	1.3	1.0	2.2	2.1
S12-4718	1.7	1.0	1.6	1.7
S13-12611	1.3	1.0	1.4	2.0
S13-14616	2.7	1.0	1.8	1.9
TN11-5102	1.7	1.0	1.5	1.6
TN12-5507R2	1.7	1.0	1.4	1.7
TN13-4508R2	1.3	1.0	1.7	1.7
V10-0262	1.7	1.0	1.4	1.6
V11-0730	1.0	1.0	1.3	1.4
V11-3485	1.0	1.0	1.8	1.8
Mean	1.4	1.0	1.7	1.7
LSD(0.05)	0.8	.	0.4	0.3
CV(%)	33.0	0.0	14.4	30.8

**TABLE 53 - SEED QUALITY (1-5)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	1.0	1.0	1.3	1.0	1.7	2.0	1.0
Ellis	1.0	1.0	2.0	1.0	1.3	2.0	1.0
JTN-5203	1.0	1.0	2.0	1.0	1.7	2.0	1.0
S11-20124	1.0	1.0	2.0	1.0	1.7	2.0	1.0
UA 5612	1.0	1.0	1.3	1.0	1.3	2.0	1.0
AG 5534RR2	1.5	1.0	2.0	1.0	1.7	2.0	1.0
AG 5335	1.0	2.0	1.7	1.0	2.3	1.0	1.0
DA08x41-193F	1.0	1.0	1.0	1.0	1.0	2.0	1.0
DA09x39-17F	1.0	2.0	1.7	1.0	1.0	3.0	1.0
DA09x39-26F	1.0	1.0	2.0	1.0	1.0	3.0	1.0
JTN-5110	1.0	1.0	2.0	1.0	2.0	3.0	1.0
K13-1830	1.0	1.0	1.3	1.0	1.3	2.0	1.0
R12-2069	1.3	1.0	1.3	1.0	1.3	2.0	1.0
R12-2142	1.5	1.0	2.0	1.0	1.3	2.0	1.0
R12-7448RY	1.5	1.0	1.3	2.0	1.7	3.0	1.0
R13-9687	1.0	1.0	1.3	1.0	1.3	2.0	1.0
R13-13997	1.2	1.0	2.0	1.0	1.7	2.0	1.0
S11-16653	1.0	1.0	1.3	1.0	2.0	2.0	1.0
S11-17025	1.3	1.0	2.0	1.0	1.7	3.0	1.0
S12-4718	1.0	1.0	2.3	1.0	1.7	2.0	1.0
S13-12611	1.0	1.0	2.0	1.0	2.0	2.0	1.0
S13-14616	1.0	1.0	1.0	1.0	2.3	2.0	1.0
TN11-5102	1.0	1.0	1.3	1.0	1.3	3.0	1.0
TN12-5507R2	1.0	1.0	2.0	1.0	1.3	2.0	1.0
TN13-4508R2	1.0	2.0	2.0	1.0	1.7	2.0	1.0
V10-0262	1.0	1.0	2.0	1.0	1.3	2.0	1.0
V11-0730	1.0	1.0	2.0	1.0	1.7	3.0	1.0
V11-3485	1.0	1.0	2.0	1.0	1.3	2.0	1.0
Mean	1.1	1.1	1.7	1.0	1.6	2.2	1.0
LSD(0.05)	0.0	.	0.6	.	0.8	.	
CV(%)	2.5	.	21.3	.	32.8	.	0.0

**TABLE 53 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	2.0	.	1.0	1.0	1.0	.	3.0
Ellis	2.0	.	1.0	1.0	1.3	.	3.0
JTN-5203	3.0	.	2.0	1.0	1.3	.	2.0
S11-20124	2.0	.	1.7	3.0	1.3	.	2.0
UA 5612	3.0	.	3.0	1.0	1.3	.	3.0
AG 5534RR2	3.0	.	1.7	2.0	1.7	.	2.0
AG 5335	2.0	.	1.3	1.0	1.7	.	3.0
DA08x41-193F	3.0	.	1.0	2.0	1.3	.	3.0
DA09x39-17F	2.0	.	2.0	1.3	1.0	.	3.0
DA09x39-26F	2.0	.	1.0	1.3	1.3	.	2.0
JTN-5110	3.0	.	2.0	1.0	1.3	.	3.0
K13-1830	2.0	.	1.7	2.7	1.0	.	2.0
R12-2069	2.0	.	1.0	1.0	1.0	.	2.0
R12-2142	2.0	.	1.7	2.0	1.3	.	3.0
R12-7448RY	3.0	.	2.0	1.0	1.3	.	3.0
R13-9687	2.0	.	1.0	2.7	1.3	.	3.0
R13-13997	3.0	.	1.0	1.3	1.0	.	2.0
S11-16653	3.0	.	1.3	1.0	1.0	.	2.0
S11-17025	3.0	.	1.3	1.7	1.7	.	2.0
S12-4718	2.0	.	1.0	1.0	1.3	.	2.0
S13-12611	3.0	.	2.0	1.7	2.0	.	2.0
S13-14616	3.0	.	2.0	2.0	1.7	.	3.0
TN11-5102	2.0	.	1.7	2.0	1.3	.	2.0
TN12-5507R2	2.0	.	1.0	1.3	1.7	.	3.0
TN13-4508R2	2.0	.	1.0	1.3	1.7	.	3.0
V10-0262	2.0	.	1.0	1.0	1.7	.	2.0
V11-0730	2.0	.	1.3	1.0	1.7	.	3.0
V11-3485	2.0	.	2.7	1.0	1.7	.	2.0
Mean	2.4	.	1.5	1.5	1.4	.	2.5
LSD(0.05)	.	.	0.6	0.5	0.8	.	.
CV(%)	.	.	22.6	21.7	35.9	.	.

**TABLE 53 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	1.0	2.0	1.7	1.4
Ellis	1.0	3.0	1.7	1.6
JTN-5203	1.0	2.7	2.2	1.7
S11-20124	1.0	2.0	1.3	1.6
UA 5612	2.0	2.7	1.3	1.7
AG 5534RR2	1.0	2.0	1.4	1.7
AG 5335	1.0	3.0	1.8	1.7
DA08x41-193F	1.0	2.7	1.1	1.5
DA09x39-17F	2.0	3.0	1.6	1.7
DA09x39-26F	1.0	2.7	1.1	1.5
JTN-5110	1.0	3.0	2.0	1.8
K13-1830	1.0	2.7	1.5	1.6
R12-2069	1.0	2.0	1.1	1.3
R12-2142	.	2.0	1.5	1.6
R12-7448RY	1.0	2.7	1.6	1.8
R13-9687	1.0	2.7	1.8	1.6
R13-13997	1.0	3.0	1.3	1.6
S11-16653	1.0	3.0	1.5	1.5
S11-17025	1.0	3.0	1.4	1.7
S12-4718	1.0	2.7	1.5	1.5
S13-12611	2.0	3.0	2.1	1.9
S13-14616	1.0	2.3	1.5	1.7
TN11-5102	1.0	2.0	1.4	1.5
TN12-5507R2	1.0	3.0	1.9	1.6
TN13-4508R2	1.0	3.0	1.9	1.7
V10-0262	1.0	3.0	1.5	1.5
V11-0730	1.0	3.0	3.3	1.8
V11-3485	1.0	3.0	1.6	1.7
Mean	1.1	2.7	1.6	1.6
LSD(0.05)	.	0.5	0.7	0.3
CV(%)	.	12.4	25.9	28.6

**TABLE 54 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	10.4	14.5	11.1	11.3	11.8	13.8	13.7
Ellis	11.0	14.5	11.2	12.2	11.8	13.5	12.3
JTN-5203	11.0	15.4	12.1	11.9	11.5	14.1	11.7
S11-20124	11.8	13.6	11.6	11.0	12.3	14.7	13.0
UA 5612	10.5	13.6	11.6	12.2	11.7	13.1	13.0
AG 5534RR2	12.5	18.1	13.9	15.3	14.2	17.6	14.3
AG 5335	13.2	16.3	13.1	14.4	14.8	16.7	13.7
DA08x41-193F	9.9	13.6	9.6	11.9	11.4	13.5	12.0
DA09x39-17F	11.5	14.5	11.9	12.7	12.7	15.8	14.0
DA09x39-26F	10.7	13.6	11.2	12.8	12.2	15.2	13.3
JTN-5110	13.0	16.3	13.3	14.7	13.0	15.8	14.0
K13-1830	11.2	13.6	11.8	12.4	11.4	14.5	12.0
R12-2069	9.9	12.7	11.2	12.9	11.2	14.7	12.3
R12-2142	12.5	16.3	13.3	15.8	13.9	17.6	17.0
R12-7448RY	9.6	11.8	11.9	11.7	11.8	12.8	12.7
R13-9687	10.8	13.6	12.3	12.2	12.7	13.2	13.3
R13-13997	12.9	16.3	13.3	15.2	14.3	16.8	15.7
S11-16653	13.0	16.3	13.6	15.9	14.9	16.6	16.0
S11-17025	11.7	14.5	12.3	12.4	13.1	15.0	13.7
S12-4718	12.2	15.4	12.7	14.8	12.7	16.8	14.7
S13-12611	11.8	14.5	11.5	12.8	14.7	14.7	12.3
S13-14616	14.2	16.3	15.3	14.8	16.3	18.0	13.3
TN11-5102	11.9	16.3	12.1	12.9	13.1	15.5	14.0
TN12-5507R2	11.1	12.7	11.1	11.4	11.8	13.8	12.0
TN13-4508R2	11.2	11.8	11.7	11.9	12.2	13.1	12.3
V10-0262	11.3	15.4	11.8	13.2	12.7	16.0	12.7
V11-0730	11.3	14.5	12.8	13.2	11.9	15.2	13.0
V11-3485	11.9	15.4	11.8	12.9	12.8	15.1	13.0
Mean	11.6	14.7	12.2	13.1	12.8	15.1	13.4
LSD(0.05)	0.7	.	0.9	.	0.8	.	1.5
CV(%)	3.5	.	4.3	.	4.0	.	6.9

**TABLE 54 - SEED SIZE (GRAMS PER 100 SEED) (continued)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	13.5	11.6	11.7	12.3	12.5	.	11.9
Ellis	11.8	11.6	12.5	11.8	12.7	.	12.3
JTN-5203	13.3	11.0	12.7	11.7	12.7	.	12.3
S11-20124	13.4	11.4	12.6	11.7	11.6	.	12.5
UA 5612	13.5	12.2	13.1	11.7	11.9	.	12.1
AG 5534RR2	17.1	13.1	14.8	15.0	14.7	.	15.4
AG 5335	15.0	12.8	13.7	13.6	12.6	.	14.6
DA08x41-193F	12.0	10.6	11.5	11.4	10.8	.	12.2
DA09x39-17F	14.8	11.6	14.1	13.1	12.9	.	12.8
DA09x39-26F	14.1	11.6	12.9	12.5	11.7	.	12.7
JTN-5110	16.0	13.4	14.8	14.7	14.9	.	13.7
K13-1830	13.1	10.9	12.7	11.7	12.2	.	12.4
R12-2069	13.3	12.4	13.9	12.3	12.1	.	12.6
R12-2142	15.7	15.3	15.7	14.3	15.9	.	16.4
R12-7448RY	12.3	11.9	11.6	11.4	12.3	.	11.7
R13-9687	12.8	11.5	12.1	12.4	12.1	.	12.5
R13-13997	16.1	13.8	16.0	13.0	15.1	.	14.4
S11-16653	16.8	13.3	15.7	14.8	14.8	.	14.8
S11-17025	14.1	11.4	11.7	12.9	12.1	.	12.2
S12-4718	16.0	12.3	14.8	13.6	13.0	.	15.3
S13-12611	14.3	11.6	13.1	11.9	12.9	.	13.0
S13-14616	16.2	15.2	15.4	15.1	14.9	.	15.4
TN11-5102	13.3	13.1	12.6	13.0	14.3	.	12.7
TN12-5507R2	12.0	10.2	11.7	11.4	11.2	.	11.2
TN13-4508R2	12.6	11.3	11.3	11.6	11.1	.	11.6
V10-0262	14.0	13.0	15.6	13.1	14.4	.	13.6
V11-0730	13.0	12.0	12.6	12.9	14.4	.	13.4
V11-3485	15.4	12.8	14.2	13.9	14.8	.	13.6
Mean	14.1	12.3	13.4	12.8	13.1	.	13.2
LSD(0.05)	.	1.0	0.9	0.8	1.5	.	.
CV(%)	.	4.8	4.0	4.0	7.1	.	.

**TABLE 54 - SEED SIZE (GRAMS PER 100 SEED) (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	13.8	13.6	11.8	12.5
Ellis	13.8	11.3	10.8	12.2
JTN-5203	12.8	11.9	10.5	12.2
S11-20124	13.9	12.8	11.2	12.4
UA 5612	13.5	13.0	10.7	12.4
AG 5534RR2	18.6	16.4	14.4	15.2
AG 5335	15.3	13.9	14.7	14.2
DA08x41-193F	12.2	13.4	12.0	11.7
DA09x39-17F	15.0	14.4	13.0	13.4
DA09x39-26F	14.0	14.1	12.0	12.8
JTN-5110	15.9	14.8	12.6	14.4
K13-1830	13.1	12.3	10.5	12.2
R12-2069	13.6	14.4	11.8	12.6
R12-2142	.	17.9	16.1	15.7
R12-7448RY	13.2	14.5	12.1	12.2
R13-9687	13.6	14.9	11.8	12.7
R13-13997	16.4	16.0	13.7	14.9
S11-16653	17.2	13.4	13.6	15.0
S11-17025	14.6	11.6	11.7	12.8
S12-4718	16.2	13.5	11.9	14.0
S13-12611	13.8	12.5	11.6	12.9
S13-14616	16.6	16.0	16.0	15.6
TN11-5102	14.9	14.1	11.6	13.5
TN12-5507R2	13.4	12.2	11.6	11.8
TN13-4508R2	12.2	12.3	11.5	11.9
V10-0262	15.5	14.2	13.1	13.7
V11-0730	14.2	11.7	11.1	12.9
V11-3485	15.4	14.9	12.8	13.8
Mean	14.5	13.8	12.4	13.3
LSD(0.05)	.	1.5	1.1	0.5
CV(%)	.	6.6	5.6	6.6



**TABLE 55 - OIL (%)†**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	19.1	.	19.0	18.7	20.1	18.4	.
Ellis	20.2	.	19.7	18.2	20.2	18.3	.
JTN-5203	20.9	.	19.4	18.9	20.5	19.2	.
S11-20124	20.5	.	20.4	19.2	21.7	19.1	.
UA 5612	20.0	.	19.5	18.6	20.2	18.9	.
AG 5534RR2	20.4	.	20.8	20.5	20.8	20.1	.
AG 5335	20.9	.	20.3	19.5	20.4	19.5	.
DA08x41-193F	20.5	.	19.7	18.7	20.7	18.9	.
DA09x39-17F	20.2	.	19.5	18.7	20.3	17.7	.
DA09x39-26F	20.3	.	20.0	19.4	20.2	18.7	.
JTN-5110	20.8	.	19.5	19.2	20.6	19.1	.
K13-1830	20.2	.	19.8	18.3	20.2	18.5	.
R12-2069	18.7	.	19.0	18.2	19.7	18.3	.
R12-2142	19.9	.	20.0	.	20.4	18.9	.
R12-7448RY	18.9	.	18.8	18.6	19.9	18.0	.
R13-9687	19.0	.	19.4	18.5	19.2	17.6	.
R13-13997	19.8	.	19.9	19.5	20.6	18.9	.
S11-16653	20.0	.	19.7	19.2	20.3	18.9	.
S11-17025	20.5	.	19.7	18.6	20.9	18.8	.
S12-4718	20.6	.	20.1	19.4	20.6	18.7	.
S13-12611	20.7	.	20.1	19.4	20.1	19.7	.
S13-14616	20.1	.	20.6	20.3	19.7	19.7	.
TN11-5102	19.4	.	19.3	18.3	20.2	18.2	.
TN12-5507R2	20.0	.	19.9	19.5	20.3	18.9	.
TN13-4508R2	20.6	.	20.2	19.4	20.2	18.6	.
V10-0262	19.6	.	19.2	18.9	20.1	17.7	.
V11-0730	20.7	.	19.9	19.7	20.7	19.5	.
V11-3485	19.7	.	19.3	18.9	20.0	17.7	.
Mean	20.1	.	19.7	19.0	20.3	18.7	.
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 55 - OIL (%)† (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	18.2	18.9	18.1	19.4	19.2	.	18.1
Ellis	18.6	19.4	18.8	19.5	19.2	.	19.2
JTN-5203	18.8	19.9	18.9	19.5	19.1	.	19.3
S11-20124	19.5	21.0	20.4	20.5	19.4	.	20.6
UA 5612	18.5	19.4	19.2	19.4	19.1	.	19.1
AG 5534RR2	19.5	21.7	19.8	21.1	20.5	.	20.0
AG 5335	19.2	19.1	19.6	20.4	19.6	.	19.4
DA08x41-193F	18.7	19.6	18.7	19.5	18.8	.	19.2
DA09x39-17F	18.4	19.1	18.7	19.3	18.7	.	18.8
DA09x39-26F	18.5	19.3	19.0	19.4	19.2	.	19.2
JTN-5110	19.3	20.1	19.2	19.9	19.5	.	19.3
K13-1830	18.1	19.5	19.0	19.1	19.1	.	18.9
R12-2069	18.2	18.6	19.1	18.7	18.8	.	19.2
R12-2142	19.0	20.3	19.9	19.9	20.2	.	20.2
R12-7448RY	17.9	19.1	18.2	18.8	18.7	.	18.6
R13-9687	17.6	18.8	18.3	18.9	18.5	.	18.5
R13-13997	19.1	20.7	19.3	19.8	19.8	.	20.2
S11-16653	18.7	19.9	19.9	20.1	19.7	.	20.3
S11-17025	18.9	19.3	19.2	20.0	19.1	.	19.1
S12-4718	19.0	20.6	19.4	19.9	19.2	.	19.9
S13-12611	19.7	20.2	19.7	20.4	19.6	.	19.3
S13-14616	19.2	19.4	20.1	20.1	20.2	.	19.6
TN11-5102	18.2	19.2	18.4	19.0	19.0	.	18.9
TN12-5507R2	19.2	19.7	18.8	19.7	19.6	.	19.3
TN13-4508R2	18.5	19.6	19.0	19.5	19.1	.	19.2
V10-0262	18.1	19.6	19.4	19.4	18.8	.	19.3
V11-0730	19.8	20.2	19.6	20.7	20.3	.	19.7
V11-3485	18.0	19.4	18.6	19.3	18.7	.	19.3
Mean	18.7	19.7	19.2	19.7	19.3	.	19.3
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

**TABLE 55 - OIL (%)† (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	19.4	.	19.5	18.9
Ellis	19.8	.	19.6	19.3
JTN-5203	19.8	.	19.8	19.5
S11-20124	21.1	.	20.2	20.3
UA 5612	19.4	.	19.7	19.3
AG 5534RR2	21.0	.	20.8	20.5
AG 5335	20.4	.	20.3	19.9
DA08x41-193F	20.1	.	19.6	19.4
DA09x39-17F	18.9	.	19.4	19.1
DA09x39-26F	19.3	.	19.6	19.4
JTN-5110	19.9	.	20.1	19.7
K13-1830	19.3	.	19.4	19.2
R12-2069	19.1	.	19.6	18.9
R12-2142	.	.	20.1	19.9
R12-7448RY	18.9	.	19.5	18.8
R13-9687	19.1	.	19.0	18.6
R13-13997	20.4	.	20.6	19.9
S11-16653	20.2	.	20.1	19.8
S11-17025	20.0	.	20.1	19.6
S12-4718	20.3	.	19.8	19.8
S13-12611	20.0	.	20.4	19.9
S13-14616	20.2	.	20.0	19.9
TN11-5102	18.9	.	19.5	19.0
TN12-5507R2	20.1	.	19.5	19.6
TN13-4508R2	20.5	.	19.6	19.5
V10-0262	19.7	.	19.5	19.2
V11-0730	20.3	.	20.2	20.1
V11-3485	19.2	.	18.9	19.0
Mean	19.8	.	19.8	19.5
LSD	.	.	.	0.3
CV	.	.	.	1.7

**TABLE 56 - PROTEIN (%)†**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Orange, VA</b>
OSAGE	37.4	.	38.8	38.3	37.0	37.0	.
Ellis	34.9	.	35.8	37.3	34.8	35.3	.
JTN-5203	34.2	.	36.0	36.7	35.1	35.0	.
S11-20124	34.8	.	35.5	36.7	32.8	34.6	.
UA 5612	35.0	.	35.6	36.8	35.4	34.6	.
AG 5534RR2	35.3	.	35.6	36.1	35.0	34.4	.
AG 5335	34.8	.	35.8	37.8	36.0	35.4	.
DA08x41-193F	34.9	.	35.9	38.2	35.2	35.2	.
DA09x39-17F	35.0	.	36.9	37.9	35.3	36.7	.
DA09x39-26F	34.8	.	35.9	35.6	35.3	35.7	.
JTN-5110	35.4	.	37.7	37.5	35.8	35.4	.
K13-1830	34.7	.	35.1	36.8	34.6	35.7	.
R12-2069	34.4	.	34.4	36.0	33.8	34.0	.
R12-2142	35.3	.	36.6	.	35.9	35.2	.
R12-7448RY	35.4	.	36.2	36.2	35.2	34.7	.
R13-9687	36.1	.	36.8	37.4	36.4	34.5	.
R13-13997	35.7	.	36.9	37.5	34.9	35.1	.
S11-16653	35.3	.	36.5	37.4	35.0	35.6	.
S11-17025	35.1	.	36.8	37.5	35.2	36.2	.
S12-4718	34.2	.	36.1	37.4	33.8	34.9	.
S13-12611	35.2	.	36.5	38.1	36.3	35.6	.
S13-14616	34.8	.	35.2	34.8	35.6	34.2	.
TN11-5102	37.0	.	37.5	38.7	35.1	37.3	.
TN12-5507R2	34.0	.	34.7	35.9	33.3	33.4	.
TN13-4508R2	33.1	.	34.3	36.1	33.5	33.5	.
V10-0262	36.4	.	38.0	38.4	36.0	36.3	.
V11-0730	35.3	.	37.7	37.1	35.2	35.1	.
V11-3485	35.7	.	37.1	37.7	35.5	36.2	.
Mean	35.2	.	36.3	37.1	35.1	35.2	.
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 56 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Pittsburg, KS</b>	<b>Plymouth, NC</b>	<b>Portageville, MO(A)</b>	<b>Portageville, MO(B)</b>	<b>Springfield, TN</b>	<b>Starkville, MS</b>	<b>Stoneville, MS</b>
OSAGE	37.5	36.2	38.8	36.5	38.5	.	38.5
Ellis	35.5	33.7	35.7	34.5	35.8	.	35.3
JTN-5203	35.8	32.9	36.1	35.0	36.9	.	35.6
S11-20124	34.4	32.9	34.6	33.9	35.5	.	34.7
UA 5612	36.6	35.7	36.2	35.3	36.1	.	35.6
AG 5534RR2	36.0	29.6	35.9	33.6	35.8	.	35.5
AG 5335	35.9	36.3	36.2	35.2	36.8	.	35.9
DA08x41-193F	36.5	35.3	37.4	36.1	36.8	.	36.7
DA09x39-17F	36.1	35.6	37.0	35.6	36.9	.	36.2
DA09x39-26F	36.3	35.2	36.6	35.1	36.3	.	35.1
JTN-5110	35.8	34.6	36.5	35.6	36.6	.	36.5
K13-1830	35.8	33.8	35.3	34.8	36.1	.	34.8
R12-2069	35.3	34.7	35.1	34.5	34.7	.	34.6
R12-2142	36.4	34.7	36.3	35.3	35.6	.	36.6
R12-7448RY	35.7	35.7	36.0	34.2	36.0	.	36.2
R13-9687	36.7	35.8	37.3	34.8	37.6	.	36.8
R13-13997	36.6	34.7	36.8	35.0	36.1	.	35.8
S11-16653	36.0	35.3	36.3	34.7	35.5	.	35.4
S11-17025	36.1	35.3	35.8	35.3	37.0	.	35.4
S12-4718	35.8	33.8	36.1	34.9	36.7	.	35.2
S13-12611	36.4	36.4	37.2	35.0	37.0	.	36.3
S13-14616	35.6	35.9	35.8	34.6	34.7	.	36.1
TN11-5102	37.3	36.3	37.8	36.4	37.4	.	36.9
TN12-5507R2	32.7	31.7	35.0	33.5	33.7	.	34.2
TN13-4508R2	33.6	33.1	34.9	34.0	34.2	.	34.2
V10-0262	37.3	37.4	38.6	36.4	38.2	.	38.4
V11-0730	36.3	35.8	37.0	34.7	36.5	.	36.2
V11-3485	37.4	35.2	37.3	35.4	36.9	.	36.0
Mean	36.0	34.8	36.4	35.0	36.3	.	35.9
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

**TABLE 56 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Suffolk, VA</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	37.5	.	35.2	37.5
Ellis	35.1	.	32.6	35.1
JTN-5203	35.0	.	33.0	35.2
S11-20124	34.6	.	32.4	34.4
UA 5612	36.5	.	33.2	35.6
AG 5534RR2	36.0	.	32.5	34.7
AG 5335	36.6	.	34.3	35.9
DA08x41-193F	35.9	.	33.9	36.0
DA09x39-17F	37.7	.	33.5	36.2
DA09x39-26F	35.5	.	32.7	35.4
JTN-5110	35.8	.	33.0	35.9
K13-1830	35.0	.	32.8	35.0
R12-2069	33.8	.	32.0	34.4
R12-2142	.	.	34.0	35.8
R12-7448RY	36.0	.	33.4	35.5
R13-9687	36.4	.	33.1	36.1
R13-13997	35.3	.	33.1	35.7
S11-16653	35.3	.	32.8	35.5
S11-17025	35.1	.	33.1	35.7
S12-4718	35.4	.	32.5	35.1
S13-12611	37.3	.	33.6	36.2
S13-14616	35.9	.	33.9	35.2
TN11-5102	37.3	.	33.8	36.8
TN12-5507R2	34.6	.	32.0	33.7
TN13-4508R2	33.8	.	31.8	33.9
V10-0262	37.5	.	33.6	37.1
V11-0730	35.7	.	34.4	35.9
V11-3485	36.5	.	34.3	36.2
Mean	35.8	.	33.2	35.6
LSD	.	.	.	0.5
CV	.	.	.	1.7

**TABLE 57 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP V 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	OSAGE	Hartz 5545 x KS4895			Conv	
2	Ellis	5002T x 5601T			Conv	
3	JTN-5203	R93-171 x Anand	Arelli	F17	Conv	SCN, FLS
4	S11-20124	S05-11482 x S06-4649RR	Shannon		Conv	
5	UA 5612	Commercial check			Conv	
6	AG 5534RR2	Commercial check			RR2	
7	AG 5335	Commercial check			RR2	
8	DA10x05-17F	DB06-1225 x DB06-2257	Gillen	F5	Conv	
9	DA10x05-19F	DB06-1225 x DB06-2257	Gillen	F5	Conv	
10	DA10x25-06	(2004x45-391-B8) x DB03-1381	Gillen	F5	Conv	
11	DS46-2	LG01-5087 x DT97-4290	Smith	F5	Conv	Exotic yield
12	DS788-212	DS880 x PI 567145C	Smith	F5	Conv	SR
13	JTN-5116	S97-1753 x V94-0198	Arelli	F15	Conv	SCN, FLS
14	JTN-5216	S97-1753 x V94-0198	Arelli	F15	Conv	SCN, FLS
15	JTN-5316	JTN-5503 x (Hutcheson x PI 567516C)	Arelli	F9	Conv	unique SCN
16	JTN-5416	JTN-5503 x (Hutcheson x PI 567516C)	Arelli	F9	Conv	unique SCN
17	JTN-5516	JTN-5503 x (Hutcheson x PI 567516C)	Arelli	F9	Conv	unique SCN
18	K14-1657	S05-11482 / KS5004N	Schapaugh	F4	Conv	
19	K14-1661	S05-11482 / KS5004N	Schapaugh	F4	Conv	
20	K14-1686	S05-11482 / DS-880	Schapaugh	F4	Conv	
21	K14-1694	S05-11482 / DS-880	Schapaugh	F4	Conv	
22	K14-1707	S05-11482 / DS-880	Schapaugh	F4	Conv	
23	K14-1726	NCC05-1261 / 435.TCS	Schapaugh	F4	Conv	
24	R11-6870	5002T x R01-3474F	Chen	F5	Conv	Diversity 25%-PI 594208
25	R13-335	NCC02-21183 x R04-357	Chen	F4	Conv	
26	R13-359	NCC05-1261 x R04-357	Chen	F3	Conv	
27	R13-532	Osage x R05-3239	Chen	F4	Conv	
28	R13-818	R04-357 x R05-3239	Chen	F4	Conv	
29	R13-1419	S05-11482 x R04-357	Chen	F4	Conv	
30	R13-4638RY	TN05-5018 x R03-1232 [R2Y12 (F2)]	Chen	F5	RR2	
31	S13-1955	LD07-3419 x S05-11482	Shannon		Conv	
32	S14-9017	LD07-3419 x S08-9727RR1	Shannon		RR1	
33	S14-14441	S09-10871 x S08-164 F1	Shannon		RR1	
34	S14-15084	S09-10871 x S08-9727RR1	Shannon		RR1	
35	S14-15156	S09-10871 x S08-9727RR1	Shannon		RR1	
36	S14-15164	S09-10871 x S08-9727RR1	Shannon		RR1	
37	TN13-5531RR1	TN01-294RR x LG98-1445	Pantalone		RR2	
38	TN15-4606	TN09-46,128 x TN11-20133	Pantalone		RR1	
39	TN15-5008	Osage x TN10-4409	Pantalone		Conv	High Protein
40	TN15-5016	TN09-016 x S05-11482	Pantalone		Conv	
41	TN15-5514	Osage x TN09-46,128	Pantalone		RR1	
42	TN15-5806	TN09-029 x USG 74T59	Pantalone		RR1	
43	V11-0119	V01-2245 x R04-198	Zhang		Conv	
44	V11-0695	V03-7833 x V02-8659	Zhang		Conv	
45	V12-0045R2	Teejay x (Ag5501(3) x GM_A19788)	Zhang		RR2	
46	V12-0063R2	Teejay x (Ag5501(3) x GM_A19788)	Zhang		RR2	
47	V12-1048	Schillinger 495 x R99-1613F	Zhang		RR1	
48	V12-1416	Allen x LG05-2887	Zhang		RR1	
49	V12-3684	5002T x S03-578CR	Zhang		Conv	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 58 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST V 2016**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK					Race 2	Race 3	Race 5		
OSAGE	52.8	42	33	0	1.4	25	3	1	4	MR	2
Ellis	62.8	8	16	-2	1.4	30	5	4	5	R	1
JTN-5203	60.8	15	20	-3	1.6	30	1	2	1	SS	3
S11-20124	66.5	2	8	-3	3.2	37	1	2	1	MS	4
UA 5612	60.5	18	22	2	2.6	36	5	4	3	MR	2
AG 5534RR2	58.5	27	26	1	1.8	33	4	4	3	MR	2
AG 5335	66.7	1	9	0	1.8	39	3	2	3	R	1
DA10x05-17F	62.5	10	17	-3	2.0	34	5	5	4	R	1
DA10x05-19F	61.8	11	20	-3	2.2	34	5	5	5	R	1
DA10x25-06	58.0	30	27	-3	2.9	38	4	4	5	R	1
DS46-2	54.5	38	32	0	1.9	43	4	4	5	R	1
DS788-212	49.1	46	41	2	2.4	42	4	5	5	R	1
JTN-5116	50.4	44	40	-6	2.0	36	2	1	1	MS	4
JTN-5216	53.2	41	36	-4	1.9	34	1	1	1	MS	4
JTN-5316	46.7	48	44	-7	1.7	32	1	1	1	MR	2
JTN-5416	45.4	49	44	-4	1.8	36	1	1	1	R	1
JTN-5516	50.2	45	39	-6	2.0	36	1	1	1	R	1
K14-1657	58.1	28	25	-4	1.8	30	3	3	2	R	1
K14-1661	53.8	40	36	-5	1.4	27	4	1	3	R	1
K14-1686	60.1	20	21	-2	1.6	29	1	1	1	SS	3
K14-1694	57.4	32	23	-3	1.7	30	1	1	1	SS	3
K14-1707	59.1	21	23	-3	1.4	28	1	3	1	MS	4
K14-1726	60.6	17	22	-6	1.6	31	2	2	1	R	1
R11-6870	62.8	7	16	1	1.9	33	5	2	4	R	1
R13-335	60.5	19	23	4	1.6	33	5	3	5	R	1
R13-359	60.8	13	19	1	2.3	37	5	1	4	R	1
R13-532	62.7	9	16	2	1.9	33	4	3	5	R	1
R13-818	64.5	5	11	0	2.2	35	4	3	4	R	1
R13-1419	61.5	12	18	2	1.9	35	4	3	5	R	1
R13-4638RY	62.9	6	13	2	2.2	35	4	5	5	R	1
S13-1955	58.6	24	24	2	2.3	32	1	4	1	S	5
S14-9017	66.0	3	8	1	1.8	32	1	1	2	R	1
S14-14441	58.7	23	22	-4	1.8	36	3	4	5	R	1
S14-15084	58.5	26	26	1	2.0	39	4	5	4	R	1
S14-15156	56.7	35	30	-1	1.8	36	4	4	5	R	1
S14-15164	60.8	14	19	-2	1.7	36	4	3	5	R	1
TN13-5531RR1	60.8	16	20	-3	1.6	34	1	1	1	SS	3
TN15-4606	47.6	47	36	-3	1.7	34	4	4	5	MS	4
TN15-5008	58.6	25	27	-3	1.5	32	2	4	4	S	5
TN15-5016	56.6	36	27	-1	1.5	30	1	2	1	S	5
TN15-5514	54.9	37	27	-4	1.4	27	3	2	4	S	5
TN15-5806	54.1	39	33	-2	1.5	29	2	1	2	MR	2
V11-0119	57.2	34	26	-6	1.7	33	5	2	5	R	1
V11-0695	59.1	22	25	-5	1.7	28	5	2	5	R	1
V12-0045R2	64.6	4	14	-1	1.7	30	5	1	5	R	1
V12-0063R2	58.0	29	25	0	1.6	29	4	3	5	R	1
V12-1048	57.2	33	28	-3	1.5	30	4	4	5	R	1
V12-1416	50.6	43	38	0	1.4	30	3	5	4	R	1
V12-3684	57.4	31	29	-3	1.4	26	4	5	5	R	1
Mean	58.0	.	.	-2	1.8	33	.	.	.	.	.
LSD(0.05)	6.8	.	.	2	.	3	.	.	.	.	.
CV(%)	12.7	.	.	160	.	11	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.



**TABLE 58 - GENERAL SUMMARY OF PERFORMANCE (continued)**  
**PRELIMINARY TEST V 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
OSAGE	1.5	12.1	37.5	18.9	P	G	T
Ellis	1.4	12.3	34.9	19.3	W	G	T
JTN-5203	1.6	12.7	35.3	19.5	W	G	T
S11-20124	1.8	12.7	34.3	20.4	W	T	T
UA 5612	1.7	12.5	35.6	19.3	P	G	T
AG 5534RR2	1.7	14.9	35.0	20.5	W	T	T
AG 5335	1.7	15.1	36.3	19.9	W	G	T
DA10x05-17F	1.7	15.8	35.5	19.2	W	T	T
DA10x05-19F	1.9	15.4	35.3	19.3	W	T	T
DA10x25-06	2.0	14.1	36.5	20.2	P	G	T
DS46-2	1.5	14.8	37.2	19.1	P	G	Br
DS788-212	1.7	10.3	39.0	16.4	P	T	T
JTN-5116	2.0	13.3	36.8	19.3	W	T	T
JTN-5216	1.8	13.3	36.4	19.7	W	T	T
JTN-5316	2.2	12.5	35.4	19.0	W	T	T
JTN-5416	2.4	12.6	35.0	18.6	W	T	Br
JTN-5516	2.4	12.8	34.9	18.8	W	T	Br
K14-1657	2.1	12.6	36.7	19.0	W	S	T
K14-1661	1.9	11.9	35.8	19.3	W	G	T
K14-1686	1.9	12.3	35.3	19.5	W	T	T
K14-1694	2.0	14.0	35.2	19.9	W	T	T
K14-1707	1.9	13.4	35.4	19.5	P	T	T
K14-1726	1.8	13.1	36.2	19.2	S	G	T
R11-6870	1.6	13.9	36.0	19.9	W	G	T
R13-335	1.8	13.9	37.0	18.8	W	T	T
R13-359	1.7	12.7	36.0	18.9	P	G	T
R13-532	1.7	13.1	37.7	18.7	P	G	T
R13-818	2.0	13.3	35.3	19.8	P	T	T
R13-1419	1.8	11.9	35.6	18.6	P	G	T
R13-4638RY	1.4	13.9	34.8	19.6	W	G	T
S13-1955	2.1	13.2	34.8	19.9	W	T	T
S14-9017	2.2	14.8	33.8	21.4	W	G	T
S14-14441	1.9	14.4	35.1	20.1	W	G	T
S14-15084	1.6	16.1	35.8	20.3	W	G	T
S14-15156	2.2	15.2	36.2	19.8	W	T	T
S14-15164	1.7	13.3	35.7	20.1	W	G	T
TN13-5531RR1	1.8	14.0	33.9	19.9	W	G	T
TN15-4606	1.7	12.6	35.8	19.4	W	G	T
TN15-5008	1.8	13.9	38.2	18.7	P	G	T
TN15-5016	1.9	14.0	35.2	19.1	P	T	T
TN15-5514	1.9	15.1	36.8	19.3	P	T	T
TN15-5806	1.8	12.6	36.0	19.4	P	T	T
V11-0119	1.8	12.4	37.3	19.1	W	G	T
V11-0695	2.0	12.8	35.9	20.1	W	T	T
V12-0045R2	1.8	16.1	35.6	18.8	P	G	T
V12-0063R2	2.0	16.1	36.1	19.3	P	G	T
V12-1048	1.9	15.7	36.4	19.3	P	G	Br
V12-1416	1.5	13.4	34.5	20.0	W	G	T
V12-3684	2.1	15.2	35.2	20.0	W	T	T
Mean	1.8	13.6	35.8	19.4	.	.	.
LSD(0.05)	0.4	0.8	0.6	0.3	.	.	.
CV(%)	27.5	7.5	1.7	2.0	.	.	.

**TABLE 59 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC ‡</b>	<b>Knoxville, TN ‡</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	48.4	61.3	20.3	44.9	57.8	45.7	40.2
Ellis	61.2	76.1	27.7	35.4	61.1	51.8	52.4
JTN-5203	58.4	73.3	22.8	17.1	56.1	64.2	49.0
S11-20124	59.6	77.3	33.9	20.4	63.3	72.5	59.8
UA 5612	50.4	71.3	28.3	39.1	55.6	56.5	51.4
AG 5534RR2	41.6	72.7	15.4	42.5	55.9	51.2	55.3
AG 5335	62.9	78.0	26.4	31.5	54.1	62.5	57.5
DA10x05-17F	49.6	70.9	21.8	17.7	57.4	50.8	59.2
DA10x05-19F	50.8	71.7	23.2	20.3	54.9	58.0	48.3
DA10x25-06	46.9	76.5	18.7	42.6	49.7	47.8	56.6
DS46-2	48.3	64.4	18.0	44.6	50.5	54.5	53.7
DS788-212	45.4	56.1	18.4	35.7	51.0	43.0	38.2
JTN-5116	46.3	59.5	27.1	27.0	52.2	52.0	45.4
JTN-5216	45.5	57.6	23.8	31.8	50.2	60.0	47.3
JTN-5316	43.3	50.0	27.8	27.3	44.9	55.7	34.3
JTN-5416	40.6	48.9	28.1	19.1	50.8	57.7	28.9
JTN-5516	42.4	54.1	18.6	25.3	51.3	64.6	36.3
K14-1657	52.6	60.7	25.2	30.2	57.8	55.7	47.7
K14-1661	51.7	61.9	23.7	38.2	52.1	50.8	40.5
K14-1686	48.0	70.0	25.8	48.1	56.6	66.8	56.3
K14-1694	52.0	70.3	23.0	38.0	57.7	69.2	54.9
K14-1707	61.1	73.9	26.3	34.2	55.3	59.4	51.4
K14-1726	57.3	69.0	24.6	37.4	54.7	66.2	49.7
R11-6870	56.7	77.6	29.8	43.0	52.7	58.3	56.2
R13-335	44.7	77.4	31.6	38.6	52.8	55.2	65.4
R13-359	56.9	69.7	24.7	36.7	59.2	48.4	56.3
R13-532	65.4	71.4	23.9	42.8	56.2	53.0	55.4
R13-818	60.1	78.7	29.2	41.8	60.4	58.0	61.1
R13-1419	61.1	81.3	22.9	42.7	56.6	51.8	58.0
R13-4638RY	64.1	74.6	25.3	42.2	59.4	60.7	61.4
S13-1955	53.4	68.8	24.7	51.6	57.5	57.9	50.6
S14-9017	58.2	82.8	20.4	29.4	63.4	58.7	61.8
S14-14441	53.5	58.7	27.3	30.2	58.7	54.7	53.1
S14-15084	53.2	72.1	26.2	42.8	55.7	50.1	52.9
S14-15156	52.2	59.9	15.2	30.7	53.0	55.0	50.4
S14-15164	55.1	67.6	21.9	40.0	57.2	55.8	55.1
TN13-5531RR1	61.3	74.1	24.8	34.9	55.1	68.0	51.3
TN15-4606	34.3	56.2	20.4	31.6	58.6	51.3	52.0
TN15-5008	48.4	72.2	24.1	25.2	54.1	51.0	52.3
TN15-5016	44.0	65.3	25.3	31.7	58.3	70.3	51.9
TN15-5514	48.6	72.9	24.0	30.4	56.6	55.5	53.4
TN15-5806	45.4	56.8	24.7	27.4	55.6	60.9	46.2
V11-0119	48.5	67.2	29.2	30.2	56.8	58.0	55.9
V11-0695	51.8	64.3	25.1	29.8	55.8	56.0	46.3
V12-0045R2	54.9	79.1	27.2	31.8	55.9	58.8	49.5
V12-0063R2	54.2	62.6	32.2	30.4	52.9	61.7	44.9
V12-1048	45.2	66.7	21.2	41.3	56.3	54.5	52.1
V12-1416	44.0	52.8	20.5	36.6	52.1	59.0	46.2
V12-3684	44.9	76.9	19.7	27.5	52.6	56.9	44.5
Mean	51.5	68.0	24.3	34.1	55.4	57.1	51.0
LSD(0.05)	13.8	8.5	10.2	13.0	3.8	7.6	8.8
CV(%)	13.2	6.2	19.8	19.0	3.4	6.6	8.6

‡ Data not included in test mean due to CV > 15%.

**TABLE 59 - SEED YIELD (BUSHEL PER ACRE) (continued)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA ‡</b>	<b>Test Mean</b>
OSAGE	71.3	42.2	50.9	52.8
Ellis	76.0	61.2	70.0	62.8
JTN-5203	68.6	56.0	53.3	60.8
S11-20124	65.4	67.8	50.1	66.5
UA 5612	67.2	71.5	63.7	60.5
AG 5534RR2	63.3	69.2	48.0	58.5
AG 5335	76.2	75.7	70.5	66.7
DA10x05-17F	76.4	73.5	54.9	62.5
DA10x05-19F	77.2	71.6	47.5	61.8
DA10x25-06	61.6	66.9	45.6	58.0
DS46-2	44.5	65.9	65.8	54.5
DS788-212	44.6	65.7	49.0	49.1
JTN-5116	47.0	50.8	47.7	50.4
JTN-5216	55.4	56.5	43.4	53.2
JTN-5316	51.4	47.8	33.2	46.7
JTN-5416	46.8	43.9	35.6	45.4
JTN-5516	55.2	47.9	32.1	50.2
K14-1657	73.3	58.8	35.0	58.1
K14-1661	63.4	56.3	45.3	53.8
K14-1686	63.9	59.1	36.4	60.1
K14-1694	57.2	40.3	41.5	57.4
K14-1707	60.8	52.2	43.0	59.1
K14-1726	73.8	53.8	42.7	60.6
R11-6870	66.5	71.9	48.3	62.8
R13-335	62.3	66.0	54.8	60.5
R13-359	66.2	69.1	59.0	60.8
R13-532	68.7	69.3	50.7	62.7
R13-818	65.2	67.9	48.8	64.5
R13-1419	59.0	62.4	52.2	61.5
R13-4638RY	59.6	60.6	69.4	62.9
S13-1955	56.9	65.4	61.8	58.6
S14-9017	66.4	71.0	45.0	66.0
S14-14441	67.7	64.3	42.8	58.7
S14-15084	59.5	66.1	62.4	58.5
S14-15156	65.0	61.2	58.4	56.7
S14-15164	71.6	63.2	47.7	60.8
TN13-5531RR1	68.3	47.2	51.6	60.8
TN15-4606	23.9	56.8	55.8	47.6
TN15-5008	78.1	54.4	51.8	58.6
TN15-5016	50.0	56.6	49.5	56.6
TN15-5514	37.8	59.7	57.5	54.9
TN15-5806	56.9	56.8	42.5	54.1
V11-0119	60.3	53.7	56.5	57.2
V11-0695	77.4	62.2	47.0	59.1
V12-0045R2	82.1	72.3	48.8	64.6
V12-0063R2	68.8	60.9	48.0	58.0
V12-1048	59.5	66.1	62.5	57.2
V12-1416	43.2	57.1	58.0	50.6
V12-3684	67.0	59.2	42.7	57.4
Mean	62.2	60.7	50.6	58.0
LSD(0.05)	12.5	10.6	19.5	6.8
CV(%)	10.0	8.5	19.2	12.7

‡ Data not included in test mean due to CV > 15%.

**TABLE 60 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	10/4	.	10/12	9/23	10/18	.	10/4
Ellis	-6	.	1	-7	-1	.	0
JTN-5203	-6	.	-1	-6	1	.	-2
S11-20124	-7	.	-1	-5	-1	.	-1
UA 5612	0	.	0	0	3	.	1
AG 5534RR2	-4	.	3	1	6	.	2
AG 5335	-2	.	3	-2	-2	.	0
DA10x05-17F	-7	.	1	-5	-4	.	-1
DA10x05-19F	-7	.	-1	-2	-3	.	-2
DA10x25-06	-7	.	-2	-3	0	.	-1
DS46-2	0	.	0	1	-2	.	3
DS788-212	3	.	2	0	5	.	2
JTN-5116	-11	.	-1	-3	1	.	-4
JTN-5216	-6	.	-4	-2	3	.	0
JTN-5316	-9	.	-4	-7	-2	.	-6
JTN-5416	-4	.	-7	-5	1	.	-4
JTN-5516	-8	.	-4	-5	-4	.	-6
K14-1657	-9	.	-4	-7	-1	.	-4
K14-1661	-7	.	-3	-7	-1	.	-6
K14-1686	-9	.	-2	3	-2	.	1
K14-1694	-9	.	-1	-3	-2	.	-1
K14-1707	-7	.	-2	-6	1	.	-4
K14-1726	-9	.	-1	-7	-1	.	-3
R11-6870	-4	.	1	0	1	.	3
R13-335	0	.	3	6	5	.	7
R13-359	-4	.	4	-2	4	.	0
R13-532	0	.	3	0	3	.	2
R13-818	-4	.	2	1	2	.	2
R13-1419	-2	.	2	0	7	.	1
R13-4638RY	2	.	3	1	5	.	4
S13-1955	-4	.	3	4	2	.	0
S14-9017	0	.	3	1	2	.	-2
S14-14441	-4	.	0	-5	-4	.	-2
S14-15084	3	.	2	1	3	.	1
S14-15156	3	.	3	-2	-1	.	0
S14-15164	2	.	2	-3	-3	.	-3
TN13-5531RR1	-7	.	-1	-3	-3	.	1
TN15-4606	-9	.	-1	-2	2	.	1
TN15-5008	-9	.	0	-6	-1	.	0
TN15-5016	-7	.	1	-4	4	.	1
TN15-5514	-9	.	0	-4	1	.	1
TN15-5806	-7	.	0	-5	4	.	2
V11-0119	-11	.	-3	-3	-2	.	-2
V11-0695	-9	.	-5	-8	-3	.	-7
V12-0045R2	-6	.	-2	-1	-1	.	-2
V12-0063R2	-2	.	2	-1	1	.	-1
V12-1048	-9	.	1	-1	-2	.	-2
V12-1416	-2	.	2	3	4	.	3
V12-3684	-9	.	0	-3	0	.	0
Mean	-5	.	0	-2	1	.	-1
LSD(0.05)	5	.	5	4	4	.	3
CV(%)	53	.	3265	95	385	.	174

**TABLE 60 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	9/20	10/2	10/18	10/5
Ellis	-3	-2	0	-2
JTN-5203	-6	-6	-3	-3
S11-20124	-3	-3	-1	-3
UA 5612	6	2	3	2
AG 5534RR2	1	2	1	1
AG 5335	4	-3	2	0
DA10x05-17F	-4	-5	0	-3
DA10x05-19F	-4	-5	-2	-3
DA10x25-06	-4	-6	-3	-3
DS46-2	1	-7	2	0
DS788-212	1	-1	5	2
JTN-5116	-10	-15	-2	-6
JTN-5216	-10	-9	-4	-4
JTN-5316	-9	-9	-8	-7
JTN-5416	-4	-7	-4	-4
JTN-5516	-4	-8	-8	-6
K14-1657	4	0	-7	-4
K14-1661	-3	-5	-7	-5
K14-1686	0	-4	-3	-2
K14-1694	-4	0	-3	-3
K14-1707	-3	4	-7	-3
K14-1726	-11	-11	-3	-6
R11-6870	4	-1	0	1
R13-335	5	4	4	4
R13-359	4	0	2	1
R13-532	4	2	0	2
R13-818	-4	1	0	0
R13-1419	4	3	0	2
R13-4638RY	1	2	2	2
S13-1955	2	4	2	2
S14-9017	6	0	1	1
S14-14441	-5	-6	-5	-4
S14-15084	0	-3	2	1
S14-15156	-3	-6	2	-1
S14-15164	-4	-5	-2	-2
TN13-5531RR1	-5	-6	-1	-3
TN15-4606	-12	-4	1	-3
TN15-5008	-4	-4	-2	-3
TN15-5016	-5	-2	0	-1
TN15-5514	-12	-6	0	-4
TN15-5806	-5	-4	0	-2
V11-0119	-11	-13	-4	-6
V11-0695	4	-5	-9	-5
V12-0045R2	4	-2	0	-1
V12-0063R2	3	-2	0	0
V12-1048	-4	-6	0	-3
V12-1416	-4	-4	2	0
V12-3684	-4	-3	-4	-3
Mean	-2	-3	-1	-2
LSD(0.05)	2	4	4	2
CV(%)	33	57	127	160

**TABLE 61 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	26	24	22	29	33	29	23
Ellis	31	28	25	35	37	32	27
JTN-5203	32	31	20	34	35	38	23
S11-20124	40	33	30	44	48	44	22
UA 5612	37	34	32	40	43	39	31
AG 5534RR2	33	31	31	36	40	35	28
AG 5335	45	42	33	32	39	42	38
DA10x05-17F	37	33	26	37	42	40	27
DA10x05-19F	35	30	29	38	42	39	29
DA10x25-06	37	39	30	40	43	42	36
DS46-2	46	52	33	39	36	40	39
DS788-212	46	48	37	41	41	41	39
JTN-5116	37	37	28	37	42	42	28
JTN-5216	33	36	28	35	42	39	26
JTN-5316	34	29	22	36	40	40	23
JTN-5416	42	34	.	36	43	42	23
JTN-5516	41	30	25	39	42	45	27
K14-1657	32	29	24	31	39	36	26
K14-1661	27	25	18	31	34	34	25
K14-1686	30	27	20	34	39	36	27
K14-1694	31	27	25	32	38	37	25
K14-1707	29	27	19	30	37	34	24
K14-1726	32	28	31	32	35	35	25
R11-6870	33	28	29	37	40	37	25
R13-335	32	32	29	32	36	37	29
R13-359	38	33	31	41	43	44	30
R13-532	34	33	22	36	35	34	31
R13-818	37	37	33	37	40	40	30
R13-1419	35	37	23	39	39	38	32
R13-4638RY	39	31	24	38	44	43	31
S13-1955	32	32	26	36	41	40	25
S14-9017	37	41	22	26	33	35	34
S14-14441	39	41	27	33	37	39	36
S14-15084	41	45	25	37	40	39	36
S14-15156	40	43	22	30	36	35	34
S14-15164	39	42	27	29	35	40	32
TN13-5531RR1	37	33	25	35	43	42	29
TN15-4606	34	33	29	36	43	34	29
TN15-5008	31	32	24	32	40	35	32
TN15-5016	31	28	23	32	35	33	26
TN15-5514	25	26	22	27	35	31	25
TN15-5806	33	29	19	31	34	30	29
V11-0119	34	30	30	33	39	39	24
V11-0695	28	24	22	31	32	33	22
V12-0045R2	32	30	22	33	38	34	24
V12-0063R2	35	26	26	30	36	36	20
V12-1048	33	28	24	35	35	29	25
V12-1416	34	26	24	32	36	35	23
V12-3684	29	26	20	27	31	30	21
Mean	35	32	26	34	38	37	28
LSD(0.05)	5	5	16	6	4	6	5
CV(%)	8	7	4	9	6	8	9

**TABLE 61 - PLANT HEIGHT (INCHES) (continued)**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	25	20	26	25
Ellis	30	24	33	30
JTN-5203	36	20	30	30
S11-20124	44	26	39	37
UA 5612	41	31	37	36
AG 5534RR2	36	27	34	33
AG 5335	44	36	40	39
DA10x05-17F	36	29	36	34
DA10x05-19F	36	30	35	34
DA10x25-06	44	38	36	38
DS46-2	56	43	44	43
DS788-212	48	40	42	42
JTN-5116	38	31	37	36
JTN-5216	40	28	34	34
JTN-5316	38	27	31	32
JTN-5416	42	29	37	36
JTN-5516	41	31	35	36
K14-1657	26	25	30	30
K14-1661	28	21	28	27
K14-1686	31	22	28	29
K14-1694	33	22	28	30
K14-1707	32	20	27	28
K14-1726	36	27	31	31
R11-6870	40	30	32	33
R13-335	39	28	35	33
R13-359	42	28	40	37
R13-532	41	26	35	33
R13-818	39	28	34	35
R13-1419	41	28	37	35
R13-4638RY	40	25	39	35
S13-1955	32	26	34	32
S14-9017	36	29	30	32
S14-14441	39	34	33	36
S14-15084	51	36	41	39
S14-15156	47	31	37	36
S14-15164	48	33	32	36
TN13-5531RR1	36	21	37	34
TN15-4606	38	27	38	34
TN15-5008	33	24	37	32
TN15-5016	37	23	31	30
TN15-5514	31	20	30	27
TN15-5806	32	23	30	29
V11-0119	41	23	38	33
V11-0695	36	21	29	28
V12-0045R2	37	26	30	30
V12-0063R2	34	22	31	29
V12-1048	37	22	32	30
V12-1416	35	23	33	30
V12-3684	31	20	26	26
Mean	38	27	34	33
LSD(0.05)	7	6	5	3
CV(%)	9	12	8	11

**TABLE 62 - PLANT LODGING (1-5)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	1.0	1.0	1.5	1.5	1.5	1.5	2.0
Ellis	1.0	1.0	1.5	2.0	1.0	1.0	2.0
JTN-5203	1.5	1.0	1.3	2.0	1.0	2.0	2.0
S11-20124	3.5	3.0	2.0	3.5	3.0	3.5	3.0
UA 5612	2.0	1.5	1.8	3.0	3.0	4.0	3.0
AG 5534RR2	1.0	1.0	1.8	2.0	1.0	2.0	2.5
AG 5335	2.0	1.5	1.5	2.0	1.0	1.5	3.0
DA10x05-17F	1.0	1.0	1.5	2.0	2.5	3.5	3.0
DA10x05-19F	2.0	1.0	1.8	3.0	2.5	3.0	2.5
DA10x25-06	3.5	1.5	1.8	2.5	3.0	4.0	3.0
DS46-2	2.0	1.0	2.0	2.0	1.0	1.0	3.0
DS788-212	3.0	1.0	2.0	2.0	2.0	3.0	3.0
JTN-5116	2.5	1.0	1.8	2.5	1.5	2.5	2.5
JTN-5216	1.5	1.0	1.8	2.5	1.5	3.0	2.0
JTN-5316	1.0	1.0	2.0	2.0	1.0	2.5	2.0
JTN-5416	1.5	1.0	1.3	2.0	1.0	3.0	2.0
JTN-5516	2.0	1.0	1.8	2.0	1.5	4.0	2.5
K14-1657	1.5	1.0	1.8	2.0	1.5	2.5	2.5
K14-1661	1.0	1.0	1.3	2.0	1.0	1.5	2.5
K14-1686	1.0	1.0	1.3	2.0	1.0	2.0	2.5
K14-1694	1.0	1.0	1.3	2.0	1.0	3.0	3.0
K14-1707	1.0	1.0	1.5	2.0	1.0	1.0	2.0
K14-1726	1.0	1.0	1.5	2.0	1.0	1.5	2.0
R11-6870	1.5	1.0	1.8	2.5	2.0	2.5	2.5
R13-335	1.0	1.0	2.0	1.0	1.0	2.0	2.5
R13-359	2.0	1.5	1.5	3.0	2.0	3.0	2.5
R13-532	2.0	1.0	1.8	2.0	1.5	2.5	2.5
R13-818	2.0	1.5	2.0	2.5	2.0	3.5	2.5
R13-1419	1.5	1.0	1.4	2.5	1.5	3.0	3.0
R13-4638RY	2.5	1.0	1.5	2.5	2.0	3.0	3.0
S13-1955	2.5	1.0	1.8	3.0	2.0	4.0	2.5
S14-9017	1.5	2.5	1.5	2.0	1.0	1.0	3.0
S14-14441	2.0	2.0	1.8	2.0	1.0	2.0	3.0
S14-15084	2.5	2.0	1.5	2.0	1.0	1.5	3.0
S14-15156	2.0	2.0	1.5	2.0	1.0	1.0	3.0
S14-15164	1.5	1.5	1.3	2.0	1.0	1.0	2.5
TN13-5531RR1	1.5	1.0	1.8	1.5	1.5	2.5	2.0
TN15-4606	1.0	1.0	1.8	2.5	2.0	1.0	2.5
TN15-5008	2.0	1.0	1.3	1.0	1.0	2.0	2.0
TN15-5016	1.0	1.0	1.5	1.5	1.5	1.5	2.0
TN15-5514	1.0	1.0	1.3	1.5	1.0	1.5	2.0
TN15-5806	1.0	1.0	1.3	2.0	1.0	1.5	2.0
V11-0119	1.0	1.0	2.0	1.5	1.0	2.0	2.5
V11-0695	1.0	1.0	1.8	2.0	1.0	4.0	2.0
V12-0045R2	1.5	1.0	1.5	2.0	1.5	2.0	2.0
V12-0063R2	1.5	1.0	1.8	2.0	1.0	2.0	2.0
V12-1048	1.5	1.0	1.5	2.0	1.0	1.0	2.0
V12-1416	1.0	1.0	1.3	1.5	1.0	1.0	2.0
V12-3684	1.5	1.0	1.0	1.0	1.0	1.5	2.0
Mean	1.6	1.2	1.6	2.1	1.4	2.2	2.4
LSD(0.05)	0.9	0.5	0.5	0.7	0.7	1.1	0.8
CV(%)	28.5	22.4	15.9	17.4	23.4	24.0	16.5



**TABLE 62 - PLANT LODGING (1-5) (continued)**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	2.0	1.0	1.2	1.4
Ellis	2.0	1.5	1.3	1.4
JTN-5203	2.5	1.5	1.3	1.6
S11-20124	5.0	2.5	2.7	3.2
UA 5612	3.0	2.5	2.5	2.6
AG 5534RR2	3.5	1.5	1.6	1.8
AG 5335	2.5	1.5	1.5	1.8
DA10x05-17F	2.5	1.5	1.7	2.0
DA10x05-19F	2.0	2.0	1.8	2.2
DA10x25-06	4.0	3.0	2.5	2.9
DS46-2	3.5	2.0	1.7	1.9
DS788-212	3.5	2.0	2.0	2.4
JTN-5116	2.0	2.0	1.5	2.0
JTN-5216	2.5	2.0	1.3	1.9
JTN-5316	2.5	1.5	1.2	1.7
JTN-5416	2.5	2.0	1.3	1.8
JTN-5516	2.5	1.5	1.3	2.0
K14-1657	2.0	1.5	1.3	1.8
K14-1661	2.0	1.0	1.2	1.4
K14-1686	2.5	1.5	1.2	1.6
K14-1694	2.5	1.0	1.2	1.7
K14-1707	2.5	1.0	1.2	1.4
K14-1726	3.5	1.5	1.2	1.6
R11-6870	2.5	1.5	1.3	1.9
R13-335	2.5	1.5	1.3	1.6
R13-359	3.0	2.0	2.0	2.3
R13-532	2.5	1.5	1.5	1.9
R13-818	2.5	2.0	1.7	2.2
R13-1419	2.0	1.5	1.7	1.9
R13-4638RY	3.0	1.5	2.0	2.2
S13-1955	3.0	1.0	1.7	2.3
S14-9017	2.5	1.5	1.1	1.8
S14-14441	2.5	1.0	1.2	1.8
S14-15084	3.0	2.0	1.3	2.0
S14-15156	3.0	1.5	1.3	1.8
S14-15164	3.0	1.5	1.3	1.7
TN13-5531RR1	2.0	1.0	1.6	1.6
TN15-4606	2.0	1.5	2.0	1.7
TN15-5008	2.0	1.0	1.7	1.5
TN15-5016	2.0	1.5	1.6	1.5
TN15-5514	2.5	1.0	1.3	1.4
TN15-5806	2.5	1.0	1.3	1.5
V11-0119	2.5	1.5	1.7	1.7
V11-0695	2.0	1.0	1.5	1.7
V12-0045R2	2.5	1.5	1.3	1.7
V12-0063R2	2.0	1.5	1.3	1.6
V12-1048	2.5	1.0	1.3	1.5
V12-1416	2.5	1.5	1.3	1.4
V12-3684	2.0	1.5	1.2	1.4
Mean	2.6	1.5	1.5	1.8
LSD(0.05)	0.9	0.8	0.7	0.4
CV(%)	16.6	26.7	23.3	28.0

**TABLE 63 - SEED QUALITY (1-5)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	1.5	1.0	.	1.0	2.0	2.0	1.0
Ellis	1.0	1.0	.	1.0	2.0	2.0	1.0
JTN-5203	1.5	1.0	.	1.0	2.0	3.0	1.0
S11-20124	2.0	2.0	.	1.0	2.0	3.0	1.5
UA 5612	1.5	1.0	.	1.0	3.0	3.0	1.0
AG 5534RR2	2.0	1.0	.	1.5	3.0	2.0	1.0
AG 5335	2.0	1.0	.	2.0	2.0	2.0	1.0
DA10x05-17F	2.0	1.0	.	2.0	2.0	2.0	1.5
DA10x05-19F	2.0	1.0	.	1.5	2.0	3.0	2.0
DA10x25-06	2.0	2.0	.	1.0	3.0	3.0	2.0
DS46-2	1.5	1.0	.	1.0	2.0	3.0	1.0
DS788-212	1.5	1.0	.	1.0	3.0	3.0	1.0
JTN-5116	2.0	1.0	.	1.5	3.0	3.0	1.0
JTN-5216	2.0	1.0	.	1.5	3.0	3.0	1.5
JTN-5316	2.0	2.0	.	1.0	3.0	3.0	1.0
JTN-5416	2.0	1.0	.	2.0	3.0	3.0	3.0
JTN-5516	1.5	1.0	.	2.5	4.0	3.0	1.0
K14-1657	2.0	2.0	.	1.0	3.0	3.0	1.5
K14-1661	2.0	1.0	.	1.0	3.0	3.0	1.0
K14-1686	2.0	1.0	.	1.5	2.0	3.0	1.0
K14-1694	2.0	2.0	.	1.0	2.0	3.0	1.0
K14-1707	2.0	1.0	.	1.0	2.0	3.0	1.0
K14-1726	1.5	1.0	.	1.0	2.0	2.0	2.0
R11-6870	2.0	1.0	.	1.0	3.0	2.0	1.0
R13-335	2.0	1.0	.	1.0	3.0	3.0	1.5
R13-359	1.5	1.0	.	1.0	3.0	3.0	1.0
R13-532	1.0	1.0	.	1.0	2.0	3.0	1.0
R13-818	2.0	.	.	1.0	3.0	3.0	2.0
R13-1419	1.5	1.0	.	1.0	2.0	3.0	2.0
R13-4638RY	1.0	1.0	.	1.0	2.0	3.0	1.0
S13-1955	2.0	2.0	.	2.0	2.0	3.0	2.0
S14-9017	2.0	2.0	.	3.0	3.0	2.0	1.5
S14-14441	2.5	1.0	.	2.0	2.0	2.0	1.0
S14-15084	2.0	1.0	.	1.5	2.0	2.0	1.0
S14-15156	2.0	2.0	.	3.0	2.0	3.0	1.0
S14-15164	1.0	1.0	.	2.0	2.0	2.0	1.0
TN13-5531RR1	2.0	1.0	.	1.0	2.0	3.0	1.5
TN15-4606	2.0	1.0	.	1.0	3.0	2.0	1.0
TN15-5008	2.0	1.0	.	1.0	2.0	2.0	2.5
TN15-5016	2.0	1.0	.	1.0	3.0	3.0	2.0
TN15-5514	2.0	1.0	.	1.5	3.0	2.0	1.5
TN15-5806	2.0	1.0	.	1.0	3.0	3.0	1.0
V11-0119	2.0	1.0	.	1.0	2.0	3.0	2.0
V11-0695	2.0	1.0	.	1.5	3.0	3.0	1.5
V12-0045R2	2.0	1.0	.	1.0	3.0	2.0	1.0
V12-0063R2	2.0	1.0	.	1.5	3.0	3.0	2.0
V12-1048	2.0	1.0	.	1.0	3.0	2.0	3.0
V12-1416	2.0	1.0	.	1.0	2.0	2.0	1.0
V12-3684	2.0	1.0	.	1.0	3.0	3.0	2.0
Mean	1.8	1.2	.	1.3	2.5	2.7	1.4
LSD(0.05)	0.7	.	.	0.6	.	.	0.6
CV(%)	17.5	.	.	24.1	.	.	22.7

**TABLE 63 - SEED QUALITY (1-5) (continued)**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	2.0	1.0	1.8	1.5
Ellis	2.0	1.0	1.3	1.4
JTN-5203	2.0	1.0	2.0	1.6
S11-20124	2.0	1.0	1.5	1.8
UA 5612	2.0	2.0	1.2	1.7
AG 5534RR2	3.0	1.0	1.2	1.7
AG 5335	3.0	1.0	1.3	1.7
DA10x05-17F	2.0	1.0	1.3	1.7
DA10x05-19F	2.0	2.0	1.6	1.9
DA10x25-06	2.0	1.0	2.3	2.0
DS46-2	2.0	1.0	1.3	1.5
DS788-212	3.0	1.0	1.5	1.7
JTN-5116	3.0	2.0	1.8	2.0
JTN-5216	2.0	1.0	1.5	1.8
JTN-5316	3.0	1.0	3.5	2.2
JTN-5416	3.0	1.0	3.1	2.4
JTN-5516	3.0	2.0	3.4	2.4
K14-1657	3.0	1.0	2.6	2.1
K14-1661	3.0	1.0	2.2	1.9
K14-1686	3.0	2.0	2.0	1.9
K14-1694	3.0	2.0	2.1	2.0
K14-1707	3.0	1.0	2.7	1.9
K14-1726	3.0	1.0	2.1	1.8
R11-6870	2.0	1.0	1.6	1.6
R13-335	3.0	1.0	1.2	1.8
R13-359	3.0	1.0	1.2	1.7
R13-532	3.0	2.0	1.8	1.7
R13-818	3.0	.	1.3	2.0
R13-1419	3.0	2.0	1.3	1.8
R13-4638RY	2.0	1.0	1.1	1.4
S13-1955	3.0	2.0	1.2	2.1
S14-9017	3.0	1.0	2.5	2.2
S14-14441	2.0	2.0	2.1	1.9
S14-15084	2.0	1.0	1.3	1.6
S14-15156	3.0	2.0	1.5	2.2
S14-15164	2.0	2.0	2.6	1.7
TN13-5531RR1	3.0	1.0	1.7	1.8
TN15-4606	3.0	1.0	1.3	1.7
TN15-5008	3.0	1.0	1.8	1.8
TN15-5016	3.0	1.0	1.6	1.9
TN15-5514	4.0	1.0	1.5	1.9
TN15-5806	3.0	1.0	1.2	1.8
V11-0119	2.0	1.0	1.8	1.8
V11-0695	3.0	1.0	2.4	2.0
V12-0045R2	2.0	2.0	2.3	1.8
V12-0063R2	2.0	1.0	2.4	2.0
V12-1048	2.0	2.0	1.2	1.9
V12-1416	2.0	1.0	1.1	1.5
V12-3684	3.0	2.0	2.0	2.1
Mean	2.6	1.3	1.8	1.8
LSD(0.05)	.	.	0.9	0.4
CV(%)	.	.	24.8	27.5

**TABLE 64 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	11.9	11.5	9.0	11.9	13.4	12.3	12.5
Ellis	11.4	12.2	13.1	11.5	13.1	12.7	12.2
JTN-5203	12.4	12.3	14.4	11.4	15.1	12.8	11.8
S11-20124	12.0	12.9	12.6	12.0	13.6	14.2	12.8
UA 5612	11.4	13.4	12.3	12.3	13.1	13.8	11.5
AG 5534RR2	13.1	15.4	13.4	13.7	18.4	16.9	14.2
AG 5335	14.3	14.3	14.1	14.6	17.3	15.8	14.0
DA10x05-17F	14.5	15.9	15.1	14.8	16.4	17.7	15.3
DA10x05-19F	14.5	14.2	15.2	14.5	16.2	17.3	14.4
DA10x25-06	13.1	13.1	13.8	14.4	15.2	15.3	13.7
DS46-2	13.9	14.3	12.3	15.0	15.8	16.4	14.5
DS788-212	10.3	9.7	12.6	9.4	10.0	9.6	9.0
JTN-5116	12.3	12.8	13.9	13.4	14.9	15.1	13.0
JTN-5216	12.2	13.7	14.0	12.2	15.4	15.1	12.8
JTN-5316	11.9	12.2	13.2	12.2	13.6	14.6	11.4
JTN-5416	12.3	11.2	12.5	11.9	14.5	14.5	11.7
JTN-5516	12.6	12.9	13.7	11.8	13.3	14.6	11.5
K14-1657	10.6	12.7	13.7	11.7	13.8	14.2	11.7
K14-1661	11.4	11.2	13.1	11.5	12.8	12.7	10.7
K14-1686	11.4	12.7	12.5	11.7	13.9	13.5	12.2
K14-1694	12.6	13.9	13.8	13.2	14.3	16.0	14.2
K14-1707	13.3	13.5	14.3	12.2	14.6	14.5	13.3
K14-1726	12.2	12.3	15.6	12.0	15.5	13.4	12.3
R11-6870	12.2	13.5	13.8	13.3	15.0	14.3	13.6
R13-335	12.0	14.1	13.7	13.4	15.3	14.3	13.4
R13-359	12.1	12.1	12.5	13.5	13.0	13.9	11.5
R13-532	13.2	13.1	12.5	12.1	15.8	12.7	12.3
R13-818	12.6	.	12.4	13.7	13.3	15.0	13.2
R13-1419	11.4	11.2	11.3	11.2	14.1	13.6	11.3
R13-4638RY	13.8	12.8	12.7	13.3	15.9	14.7	13.5
S13-1955	12.7	14.2	12.2	13.2	14.0	14.7	12.3
S14-9017	13.4	16.3	13.9	14.7	17.3	15.6	14.0
S14-14441	13.5	12.9	13.9	14.5	16.2	15.5	13.7
S14-15084	16.0	13.8	14.6	17.1	17.3	17.5	14.8
S14-15156	14.3	13.0	14.7	15.4	17.2	16.1	15.0
S14-15164	12.9	12.1	13.9	14.0	14.8	12.8	12.5
TN13-5531RR1	12.8	15.0	13.8	13.3	15.5	14.4	14.0
TN15-4606	10.9	11.4	12.7	13.0	14.3	12.9	13.5
TN15-5008	12.5	15.3	12.8	13.5	15.1	14.0	14.2
TN15-5016	12.5	14.2	13.7	13.6	15.8	14.5	13.4
TN15-5514	13.8	15.8	14.5	14.3	16.7	17.0	16.0
TN15-5806	11.6	11.4	12.8	11.9	14.5	14.1	12.0
V11-0119	11.9	12.3	12.8	12.0	13.5	12.8	12.2
V11-0695	12.5	13.8	12.0	11.7	14.5	13.9	12.0
V12-0045R2	14.9	16.9	14.7	15.2	18.3	16.9	14.4
V12-0063R2	14.7	15.0	16.5	15.2	18.1	17.3	14.7
V12-1048	13.6	15.6	13.7	16.9	16.4	17.8	14.8
V12-1416	11.4	12.0	13.6	12.9	14.4	13.2	13.3
V12-3684	13.0	16.1	12.2	14.9	16.5	16.2	14.7
Mean	12.7	13.4	13.4	13.2	15.0	14.7	13.1
LSD(0.05)	1.6	.	3.3	1.0	.	.	1.5
CV(%)	6.1	.	12.0	3.9	.	.	5.6

**TABLE 64 - SEED SIZE (GRAMS PER 100 SEED) (continued)  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	12.2	14.9	11.7	12.1
Ellis	12.6	13.5	10.9	12.3
JTN-5203	12.4	13.0	10.9	12.7
S11-20124	11.9	13.9	11.2	12.7
UA 5612	12.7	13.7	10.9	12.5
AG 5534RR2	14.5	18.8	13.6	14.9
AG 5335	16.3	16.4	14.3	15.1
DA10x05-17F	15.6	18.6	14.6	15.8
DA10x05-19F	15.7	18.1	14.9	15.4
DA10x25-06	13.7	15.5	13.2	14.1
DS46-2	14.0	16.2	15.7	14.8
DS788-212	9.6	10.5	10.3	10.3
JTN-5116	10.8	12.5	12.6	13.3
JTN-5216	11.8	13.1	12.4	13.3
JTN-5316	12.2	13.7	10.3	12.5
JTN-5416	12.8	13.6	11.6	12.6
JTN-5516	13.1	13.7	10.7	12.8
K14-1657	14.1	14.1	10.2	12.6
K14-1661	12.4	13.2	9.8	11.9
K14-1686	12.2	13.6	10.1	12.3
K14-1694	14.2	16.4	12.1	14.0
K14-1707	12.9	14.8	11.0	13.4
K14-1726	12.2	13.3	11.2	13.1
R11-6870	14.6	16.1	13.3	13.9
R13-335	13.7	14.8	14.2	13.9
R13-359	12.6	13.9	11.3	12.7
R13-532	13.0	15.0	11.8	13.1
R13-818	12.9	.	11.8	13.3
R13-1419	11.5	13.7	10.1	11.9
R13-4638RY	14.3	15.2	12.7	13.9
S13-1955	12.1	15.2	12.0	13.2
S14-9017	15.6	15.8	12.9	14.8
S14-14441	15.6	15.1	12.8	14.4
S14-15084	15.5	16.7	16.4	16.1
S14-15156	14.3	14.8	15.6	15.2
S14-15164	13.1	13.6	12.4	13.3
TN13-5531RR1	12.8	16.4	12.1	14.0
TN15-4606	10.1	14.7	11.3	12.6
TN15-5008	14.3	16.3	12.2	13.9
TN15-5016	12.6	16.3	13.5	14.0
TN15-5514	11.4	18.3	13.4	15.1
TN15-5806	11.9	13.7	12.5	12.6
V11-0119	12.7	13.3	10.5	12.4
V11-0695	13.5	15.1	10.7	12.8
V12-0045R2	16.6	20.0	15.2	16.1
V12-0063R2	16.4	19.0	15.1	16.1
V12-1048	16.6	18.2	14.4	15.7
V12-1416	16.1	15.1	12.3	13.4
V12-3684	17.4	20.1	14.0	15.2
Mean	13.5	15.2	12.4	13.6
LSD(0.05)	.	.	1.1	0.8
CV(%)	.	.	4.2	7.5

**TABLE 65 - OIL (%)†**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	18.9	18.6	18.8	20.2	18.2	18.4	19.9
Ellis	19.6	18.5	19.7	20.5	18.2	18.6	19.6
JTN-5203	19.2	18.9	19.7	20.8	18.7	18.9	19.7
S11-20124	20.4	19.7	20.9	21.8	19.2	19.5	20.7
UA 5612	19.0	18.8	19.9	20.2	18.5	18.6	19.4
AG 5534RR2	20.3	20.5	21.5	20.5	19.6	19.8	21.4
AG 5335	20.5	19.5	19.8	20.7	18.9	19.2	20.6
DA10x05-17F	19.1	19.0	19.5	19.5	18.4	18.6	19.6
DA10x05-19F	19.6	18.9	19.7	19.6	18.8	18.4	19.6
DA10x25-06	20.7	20.3	20.5	21.3	18.8	19.2	20.7
DS46-2	19.7	19.1	19.6	20.1	17.4	18.0	19.1
DS788-212	16.1	16.9	15.6	18.1	14.9	15.5	16.9
JTN-5116	19.6	18.8	19.9	20.4	18.2	18.8	20.1
JTN-5216	19.8	18.8	20.1	20.3	18.9	19.2	20.8
JTN-5316	18.8	18.3	19.1	19.8	18.4	18.5	19.5
JTN-5416	18.9	17.5	18.7	19.3	17.6	18.2	19.5
JTN-5516	18.7	17.8	18.9	19.7	17.8	18.3	19.6
K14-1657	19.1	18.0	19.6	20.0	18.2	18.8	19.2
K14-1661	19.5	18.0	19.6	20.6	18.1	18.8	19.6
K14-1686	20.0	18.9	19.8	20.7	18.6	18.8	19.8
K14-1694	19.7	19.4	20.1	21.4	18.7	19.2	20.2
K14-1707	19.5	18.7	19.7	20.9	18.5	18.9	20.1
K14-1726	19.2	18.4	19.5	20.5	18.0	18.5	19.4
R11-6870	20.3	19.6	20.1	20.9	18.2	18.9	19.8
R13-335	18.6	18.4	19.7	19.4	18.2	18.6	18.7
R13-359	19.3	18.5	19.4	19.6	18.0	18.0	19.2
R13-532	18.4	18.6	19.2	20.0	17.5	17.7	18.9
R13-818	20.0	.	20.4	20.6	18.8	18.9	19.9
R13-1419	18.8	17.4	19.3	19.5	17.7	18.2	19.0
R13-4638RY	19.8	19.5	19.8	20.2	18.3	18.4	19.7
S13-1955	20.2	19.6	20.2	20.5	18.6	18.7	20.3
S14-9017	22.1	21.5	22.2	20.5	20.6	.	22.3
S14-14441	20.4	19.9	19.8	20.3	18.9	.	21.1
S14-15084	20.6	20.1	20.6	20.9	18.8	.	20.8
S14-15156	20.0	19.5	19.9	19.9	18.5	.	20.4
S14-15164	20.1	19.7	20.4	20.3	18.8	.	20.6
TN13-5531RR1	21.0	20.0	20.0	20.9	18.8	.	20.3
TN15-4606	20.1	18.6	19.8	20.4	18.8	.	19.8
TN15-5008	19.2	18.3	18.7	20.1	18.0	.	19.5
TN15-5016	19.5	18.4	19.6	19.8	18.6	.	19.1
TN15-5514	20.0	19.1	19.5	20.0	18.3	.	19.8
TN15-5806	19.7	18.1	19.8	20.0	19.1	.	19.4
V11-0119	19.5	18.3	19.6	19.9	18.0	.	19.8
V11-0695	20.1	19.7	20.9	20.6	19.2	.	20.9
V12-0045R2	19.2	18.4	19.8	19.0	18.0	.	19.2
V12-0063R2	20.1	18.8	19.9	19.6	18.8	.	19.6
V12-1048	20.0	19.2	19.7	19.6	18.2	.	19.8
V12-1416	19.6	18.9	20.9	20.8	19.2	.	20.2
V12-3684	20.5	20.2	19.9	20.8	18.7	.	20.4
Mean	19.7	19.0	19.8	20.2	18.4	18.6	19.9
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 65 - OIL (%)† (continued)**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	18.2	19.2	18.9	18.9
Ellis	19.1	19.7	19.4	19.3
JTN-5203	19.1	19.8	19.7	19.5
S11-20124	20.4	21.4	20.0	20.4
UA 5612	19.1	19.4	19.6	19.3
AG 5534RR2	20.0	20.8	20.5	20.5
AG 5335	19.7	19.8	19.9	19.9
DA10x05-17F	19.6	19.6	19.2	19.2
DA10x05-19F	19.7	20.1	19.0	19.3
DA10x25-06	20.1	20.5	19.8	20.2
DS46-2	19.4	19.3	19.0	19.1
DS788-212	17.0	17.0	15.8	16.4
JTN-5116	18.6	18.9	19.8	19.3
JTN-5216	18.9	19.5	20.4	19.7
JTN-5316	19.1	19.2	19.2	19.0
JTN-5416	18.3	18.7	19.0	18.6
JTN-5516	18.6	19.0	19.1	18.8
K14-1657	19.0	19.4	18.9	19.0
K14-1661	19.1	20.0	19.5	19.3
K14-1686	19.3	19.8	19.4	19.5
K14-1694	20.2	20.3	20.1	19.9
K14-1707	19.1	19.7	19.9	19.5
K14-1726	19.1	19.5	19.4	19.2
R11-6870	20.4	20.2	20.4	19.9
R13-335	18.2	18.6	19.4	18.8
R13-359	18.7	19.2	19.1	18.9
R13-532	18.4	19.2	19.0	18.7
R13-818	19.8	.	19.9	19.8
R13-1419	18.3	19.0	19.2	18.6
R13-4638RY	19.7	20.7	19.8	19.6
S13-1955	19.8	20.8	20.4	19.9
S14-9017	20.2	22.2	21.7	21.4
S14-14441	19.9	21.2	20.0	20.1
S14-15084	20.4	20.9	20.3	20.3
S14-15156	19.8	20.6	19.9	19.8
S14-15164	20.4	21.1	19.8	20.1
TN13-5531RR1	19.7	20.1	19.2	19.9
TN15-4606	18.7	19.2	20.0	19.4
TN15-5008	17.9	18.5	19.2	18.7
TN15-5016	19.0	19.2	19.2	19.1
TN15-5514	19.2	19.2	19.6	19.3
TN15-5806	19.0	19.8	20.0	19.4
V11-0119	18.8	19.0	19.4	19.1
V11-0695	20.0	20.1	19.9	20.1
V12-0045R2	18.2	18.9	19.1	18.8
V12-0063R2	18.6	19.1	19.9	19.3
V12-1048	19.1	19.3	19.8	19.3
V12-1416	20.2	20.7	20.6	20.0
V12-3684	20.6	20.0	19.7	20.0
Mean	19.3	19.7	19.6	19.4
LSD	.	.	.	0.3
CV	.	.	.	2.0

**TABLE 66 - PROTEIN (%)†  
PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Jackson, TN</b>	<b>Keiser, AR</b>	<b>Kinston, NC</b>	<b>Knoxville, TN</b>	<b>McCune, KS</b>	<b>Pittsburg, KS</b>	<b>Portageville, MO(B)</b>
OSAGE	37.8	38.5	37.8	37.1	37.4	37.6	36.2
Ellis	35.8	36.7	35.2	34.1	35.9	35.0	34.4
JTN-5203	37.0	37.0	35.5	33.8	36.2	35.6	34.7
S11-20124	35.7	36.5	34.1	32.4	34.5	33.9	34.0
UA 5612	37.0	36.9	35.0	35.2	35.9	36.0	35.3
AG 5534RR2	36.3	35.4	34.2	35.0	35.7	35.6	33.2
AG 5335	36.8	39.2	35.8	35.7	36.5	35.6	35.2
DA10x05-17F	36.8	36.4	35.3	35.5	35.9	36.5	34.8
DA10x05-19F	36.0	35.9	34.8	35.5	35.6	36.3	34.6
DA10x25-06	37.3	37.8	36.0	35.7	36.7	37.5	35.4
DS46-2	37.3	38.6	36.6	35.9	38.1	38.0	36.3
DS788-212	40.7	39.2	39.5	38.4	39.7	39.5	37.3
JTN-5116	37.3	38.7	37.7	34.6	36.8	37.1	35.8
JTN-5216	36.7	39.3	36.9	35.6	36.1	35.8	34.6
JTN-5316	36.5	37.6	36.0	34.4	34.7	35.5	34.5
JTN-5416	34.9	36.8	36.1	34.6	35.1	34.8	33.6
JTN-5516	35.7	37.6	34.9	33.6	35.3	35.1	33.3
K14-1657	37.1	39.7	37.1	35.5	36.7	36.1	35.7
K14-1661	37.0	38.8	36.2	34.7	36.3	35.6	34.7
K14-1686	35.7	37.0	35.5	34.6	35.9	35.5	34.7
K14-1694	36.4	36.8	35.3	34.2	35.4	35.5	34.7
K14-1707	35.8	37.5	36.6	33.8	35.2	34.9	34.6
K14-1726	37.3	38.5	36.4	34.8	37.2	36.0	35.6
R11-6870	36.6	36.9	37.2	35.2	36.9	35.7	35.1
R13-335	38.3	38.3	36.4	37.2	36.5	36.6	36.4
R13-359	36.7	37.2	35.6	36.0	35.9	36.7	35.4
R13-532	39.4	39.2	36.8	36.8	37.9	38.2	36.9
R13-818	35.7	.	34.9	35.2	35.2	36.1	34.7
R13-1419	36.5	37.2	34.8	35.1	36.0	36.0	34.7
R13-4638RY	35.9	36.0	34.5	34.8	35.6	35.8	33.5
S13-1955	35.8	36.5	35.1	34.3	35.4	35.8	34.1
S14-9017	33.4	35.3	33.5	34.8	34.4	.	32.5
S14-14441	35.8	36.7	35.5	35.0	35.7	.	33.5
S14-15084	36.5	36.8	36.4	35.2	36.5	.	34.4
S14-15156	37.1	37.4	36.1	36.3	36.9	.	35.1
S14-15164	37.3	37.7	35.9	35.5	36.6	.	34.3
TN13-5531RR1	32.9	34.8	34.1	33.6	33.5	.	32.9
TN15-4606	35.7	37.3	35.7	35.9	36.0	.	35.2
TN15-5008	38.9	40.1	39.2	36.7	38.0	.	37.4
TN15-5016	35.4	36.7	34.7	35.3	34.9	.	34.6
TN15-5514	36.5	38.8	37.0	37.1	37.1	.	36.2
TN15-5806	36.8	38.6	35.8	35.7	35.8	.	35.3
V11-0119	38.0	39.1	37.3	36.8	37.1	.	36.3
V11-0695	37.3	38.1	34.8	34.9	36.4	.	34.0
V12-0045R2	36.2	36.4	35.0	35.8	35.9	.	34.6
V12-0063R2	36.3	36.9	36.5	36.1	36.7	.	35.3
V12-1048	36.2	37.8	36.1	37.0	36.4	.	35.7
V12-1416	36.0	36.7	33.2	34.4	35.2	.	33.3
V12-3684	35.7	35.9	36.1	33.8	35.4	.	34.2
Mean	36.6	37.5	35.9	35.3	36.1	36.1	34.9
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.



**TABLE 66 - PROTEIN (%)† (continued)**  
**PRELIMINARY GROUP V 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Warsaw, VA</b>	<b>Test Mean</b>
OSAGE	38.9	38.0	35.8	37.5
Ellis	35.0	34.4	32.5	34.9
JTN-5203	35.7	34.6	32.7	35.3
S11-20124	35.2	34.1	32.5	34.3
UA 5612	35.8	36.3	33.0	35.6
AG 5534RR2	35.7	36.2	32.5	35.0
AG 5335	36.5	37.5	34.0	36.3
DA10x05-17F	35.0	36.0	33.1	35.5
DA10x05-19F	34.8	35.4	33.8	35.3
DA10x25-06	37.0	37.1	34.2	36.5
DS46-2	36.9	38.7	35.4	37.2
DS788-212	39.0	39.0	37.7	39.0
JTN-5116	37.8	38.2	34.4	36.8
JTN-5216	37.7	37.7	33.9	36.4
JTN-5316	34.9	36.0	33.7	35.4
JTN-5416	35.4	35.9	32.8	35.0
JTN-5516	34.9	35.1	33.3	34.9
K14-1657	37.4	36.6	34.9	36.7
K14-1661	36.0	35.2	33.9	35.8
K14-1686	35.9	35.0	33.6	35.3
K14-1694	35.4	35.6	32.8	35.2
K14-1707	36.0	36.0	33.1	35.4
K14-1726	36.4	36.2	34.0	36.2
R11-6870	36.7	36.1	33.4	36.0
R13-335	37.9	37.8	34.7	37.0
R13-359	36.4	36.3	33.4	36.0
R13-532	39.3	37.5	35.0	37.7
R13-818	35.8	.	32.8	35.3
R13-1419	36.4	36.2	33.0	35.6
R13-4638RY	35.2	34.1	32.5	34.8
S13-1955	35.1	34.6	31.7	34.8
S14-9017	34.9	33.4	31.4	33.8
S14-14441	35.8	34.8	33.2	35.1
S14-15084	36.1	35.6	34.1	35.8
S14-15156	36.0	35.7	34.9	36.2
S14-15164	33.2	35.6	34.7	35.7
TN13-5531RR1	36.3	34.5	32.1	33.9
TN15-4606	36.8	36.6	33.2	35.8
TN15-5008	39.2	38.7	35.4	38.2
TN15-5016	35.9	35.6	33.3	35.2
TN15-5514	36.1	37.7	34.6	36.8
TN15-5806	36.9	35.8	33.3	36.0
V11-0119	38.4	38.1	34.6	37.3
V11-0695	36.5	36.6	34.4	35.9
V12-0045R2	36.5	36.7	33.2	35.6
V12-0063R2	36.8	37.2	33.3	36.1
V12-1048	37.1	37.7	33.3	36.4
V12-1416	35.1	34.4	31.9	34.5
V12-3684	36.1	36.4	33.2	35.2
Mean	36.3	36.2	33.6	35.8
LSD	.	.	.	0.6
CV	.	.	.	1.7

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**TABLE 67 - PARENTAGE OF ENTRIES  
UNIFORM GROUP VI 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AG6534	Commercial check			RR1	
2	NC-ROY	Holladay x Brim	Carter		Conv	
3	G12-1475R2	G00-3880(4)RR2Y	Li	F5d	RR2	
4	N06-19	N99-58 x SC97-318	Mian		Conv	Diversity 12.5% PI 438302B
5	N07-15444	NC-Roy x PI 399045	Carter	F4	Conv	Diversity 50% PI 399045
6	N08-174	N99-186 x TN99-117	Mian		Conv	
7	N09-12273	NC-Roy x Blue Side-BB	Carter	F4	Conv	Diversity 50% Blue Side
8	N09-12838	N7103 x PI 408337-BB	Carter	F4	Conv	Diversity 50% PI 408337
9	N10-7187	NC-Roy x 408337-BB	Carter	F4	Conv	Diversity 50% PI 408337
10	N10-7189	NC-Roy x PI 408337-BB	Carter	F4	Conv	Diversity 50% PI 408337
11	N11-340	N05-741 x N05-196	Mian		Conv	
12	N11-352	N05-741 x N05-196	Mian		Conv	
13	N11-7089	NC-Roy x LD00-3309	Carter		Conv	Midwest pedigree 50%
14	N11-7125	NC-Roy x LD00-3309	Carter	F4	Conv	Diversity 50% Midwestern pedigree
15	N11-8508	NC-Roy x PI 417021	Carter	F4	Conv	Diversity 50% PI 417021
16	N11-8526	NC-Roy x PI 417021	Carter	F4	Conv	Diversity 50% PI
17	R11-171	5002T x R01-2346	Chen	F5	Conv	
18	R11-2517	R01-976 x R03-946	Chen	F5	Conv	
19	R12-514	Osage x N02-7002	Chen	F5	Conv	
20	R13-2423RR	R04-170RR x R01-327	Chen	F5	RR1	
21	R13-9736	R05-5366 x R03-984	Chen	F5	Conv	
22	TN11-5140	Hutcheson x TN89-39	Pantalone		Conv	High Protein
23	TN13-5723R2	5601T x TN09-45,497	Pantalone		RR2	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 68 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST VI 2016**

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD <sup>†</sup>			PROTEIN <sup>‡</sup>			OIL <sup>‡</sup>		
			2016	15-16	14-16	2016	15-16	14-16	2016	15-16	14-16
AG6534	20	16	53.0	54.4	54.8	36.8	36.3	36.4	19.1	19.0	19.1
NC-ROY	12	13	54.5	53.5	54.1	37.2	36.4	36.6	18.4	18.4	18.4
G12-1475R2	7	12	55.8	.	.	34.8	.	.	19.6	.	.
N06-19	21	14	52.6	53.4	.	36.4	35.8	.	19.7	19.7	.
N07-15444	19	15	53.2	51.1	.	36.7	36.3	.	18.2	18.0	.
N08-174	1	4	61.3	61.1	.	35.5	34.7	.	19.3	19.4	.
N09-12273	23	17	51.6	52.3	52.9	36.3	35.5	35.5	20.2	20.2	20.2
N09-12838	13	14	53.8	52.0	50.6	37.8	37.2	37.3	18.0	17.8	17.9
N10-7187	5	9	57.0	.	.	37.4	.	.	18.3	.	.
N10-7189	10	11	55.1	54.8	54.7	37.4	36.8	36.8	18.2	18.2	18.3
N11-340	22	15	52.4	.	.	34.8	.	.	20.3	.	.
N11-352	11	12	54.6	.	.	35.0	.	.	20.3	.	.
N11-7089	14	12	53.8	.	.	37.4	.	.	18.4	.	.
N11-7125	18	14	53.4	53.5	.	35.8	35.7	.	18.9	18.3	.
N11-8508	6	10	56.2	55.7	.	37.5	36.7	.	18.3	18.4	.
N11-8526	8	12	55.7	.	.	37.4	.	.	19.2	.	.
R11-171	2	7	57.5	59.2	.	34.7	34.7	.	20.3	19.9	.
R11-2517	3	11	57.3	58.1	.	35.5	35.0	.	20.6	20.4	.
R12-514	9	10	55.2	.	.	37.2	.	.	19.2	.	.
R13-2423RR	16	14	53.6	.	.	34.6	.	.	19.0	.	.
R13-9736	17	14	53.4	.	.	36.1	.	.	19.8	.	.
TN11-5140	4	9	57.1	58.8	59.4	35.9	35.5	35.6	19.8	19.6	19.7
TN13-5723R2	15	13	53.6	.	.	35.9	.	.	19.0	.	.
Mean	.	.	54.9	.	.	36.3	.	.	19.2	.	.
LSD(0.05)	.	.	5.5	.	.	0.6	.	.	0.4	.	.
CV(%)	.	.	11.9	.	.	1.6	.	.	2.0	.	.

†Data not included in mean: 2016 - Belle Mina, AL; Bossier City, LA; Stoneville, MS; Tallassee, AL(A)  
2015 - Tallassee, AL(A); Bossier City, LA  
2014 - Fairhope, AL; Florence, SC; Tallassee, AL(A)

‡Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.

**TABLE 69 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST VI 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LOGGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AG6534	0	1.2	28	1.6	12.0	P	T	T
NC-ROY	0	2.2	33	1.6	11.5	W	G	Br
G12-1475R2	1	1.8	33	1.7	12.6	P	T	T
N06-19	-4	2.1	31	1.8	13.0	P	G	.
N07-15444	0	2.1	35	1.8	10.7	W	T	.
N08-174	-5	1.5	29	1.7	14.2	P	G	.
N09-12273	-2	2.0	31	1.9	14.8	P	G	.
N09-12838	0	2.1	36	1.7	11.9	W	T	.
N10-7187	0	2.2	33	1.7	11.7	W	G	.
N10-7189	0	2.2	34	1.6	11.5	W	G	.
N11-340	-3	1.2	25	1.6	11.9	W	G	.
N11-352	-2	1.3	25	1.6	11.6	W	G	.
N11-7089	-1	2.1	31	1.6	12.1	W	G	.
N11-7125	-3	1.3	25	1.9	10.2	P	G	.
N11-8508	0	2.0	34	1.5	11.9	W	G	.
N11-8526	-1	1.8	33	1.8	12.3	W	G	.
R11-171	-4	1.5	28	1.7	14.2	W	G	T
R11-2517	-5	1.5	32	1.7	14.7	P	G	T
R12-514	-5	1.4	29	1.6	13.2	P	T	T
R13-2423RR	-3	2.3	35	2.0	13.0	P	T	Br
R13-9736	-7	1.3	31	1.7	12.3	W	G	T
TN11-5140	-4	1.7	33	1.7	13.7	W	G	.
TN13-5723R2	-2	1.4	30	1.7	12.1	W	G	.
Mean	-2	1.7	31	1.7	12.5	.	.	.
LSD(0.05)	3	0.4	2	0.4	1.0	.	.	.
CV(%)	172	34.0	11	27.0	9.4	.	.	.

**TABLE 70 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST VI 2016**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS1	SDS2	SDS	FLS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX	DX	MEAN	SCORE
AG6534	5	2	5	2.8	1.0	MS	4.0	.	.	.	.
NC-ROY	5	3	5	5.0	5.0	SS	3.0	.	.	.	.
G12-1475R2	4	2	4	1.3	1.0	MS	4.0	.	.	.	.
N06-19	5	2	3	3.3	1.0	SS	3.0	.	.	.	.
N07-15444	4	4	4	4.8	5.0	MS	4.0	.	.	.	.
N08-174	5	3	5	5.0	4.0	R	1.0	.	.	.	.
N09-12273	5	4	5	2.5	3.5	MS	4.0	.	.	.	.
N09-12838	5	4	5	4.3	5.0	MS	4.0	.	.	.	.
N10-7187	5	4	5	5.0	1.3	MS	4.0	.	.	.	.
N10-7189	5	4	5	4.8	4.0	MS	4.0	.	.	.	.
N11-340	5	5	5	4.8	2.0	MR	2.0	.	.	.	.
N11-352	5	3	5	5.0	2.8	MR	2.0	.	.	.	.
N11-7089	5	4	5	3.5	4.5	MS	4.0	.	.	.	.
N11-7125	5	5	4	3.3	5.0	SS	3.0	.	.	.	.
N11-8508	4	3	5	4.8	5.0	SS	3.0	.	.	.	.
N11-8526	5	4	5	3.0	2.8	SS	3.0	.	.	.	.
R11-171	5	2	5	4.3	3.0	MS	4.0	.	.	.	.
R11-2517	5	2	5	4.5	5.0	SS	3.0	.	.	.	.
R12-514	2	1	2	4.8	5.0	R	1.0	.	.	.	.
R13-2423RR	5	2	4	4.8	5.0	SS	3.0	.	.	.	.
R13-9736	5	4	5	4.8	1.0	R	1.0	.	.	.	.
TN11-5140	5	5	5	2.5	1.0	R	1.0	.	.	.	.
TN13-5723R2	5	5	5	4.5	5.0	R	1.0	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 71 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL ‡</b>	<b>Bossier City, LA ‡</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	58.6	18.9	26.8	52.3	52.4	60.8	37.9
NC-ROY	60.0	22.1	16.5	55.3	52.1	61.2	30.9
G12-1475R2	69.1	22.0	21.1	54.6	49.1	62.1	38.4
N06-19	62.2	23.6	46.4	61.4	51.0	59.1	21.2
N07-15444	56.3	17.3	18.0	57.5	52.4	57.5	42.4
N08-174	68.5	27.0	44.2	62.8	58.3	66.4	48.6
N09-12273	53.5	21.2	22.4	47.9	50.8	62.0	39.0
N09-12838	53.5	19.9	15.8	48.1	48.8	60.4	44.9
N10-7187	51.4	23.0	16.7	60.0	51.5	65.6	44.3
N10-7189	58.8	24.1	16.7	56.9	54.3	59.4	32.5
N11-340	58.6	22.2	33.9	58.2	54.1	60.6	37.6
N11-352	67.6	19.1	33.6	57.9	54.3	58.9	26.9
N11-7089	54.3	22.5	21.8	56.7	53.9	60.2	26.9
N11-7125	66.4	15.7	18.9	56.9	40.9	60.1	45.4
N11-8508	64.1	26.2	18.3	56.3	52.6	62.8	37.6
N11-8526	63.4	25.3	21.5	55.2	49.9	64.6	43.5
R11-171	65.2	41.6	65.3	67.7	55.4	68.5	22.3
R11-2517	63.7	32.2	40.2	55.0	51.5	67.6	35.5
R12-514	60.8	37.4	46.4	62.8	48.8	65.0	21.2
R13-2423RR	51.0	27.7	34.8	56.1	52.4	70.7	32.8
R13-9736	55.3	27.4	44.4	60.1	53.0	56.1	40.6
TN11-5140	62.6	27.9	43.3	56.2	52.4	69.7	38.4
TN13-5723R2	62.3	28.6	32.3	53.9	54.8	70.4	27.1
Mean	60.3	24.9	30.4	57.0	51.9	63.0	35.5
LSD(0.05)	10.8	7.0	8.0	9.9	4.5	9.0	5.0
CV(%)	10.9	17.1	16.0	10.6	5.3	8.7	8.6

‡ Data not included in test mean due to CV > 15%.

**TABLE 71 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS ‡</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A) ‡</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	27.4	60.4	30.1	48.4	53.0
NC-ROY	31.4	68.1	24.6	53.6	54.5
G12-1475R2	24.5	64.7	37.1	52.7	55.8
N06-19	37.8	67.7	39.5	45.6	52.6
N07-15444	24.9	59.1	30.6	47.0	53.2
N08-174	31.8	66.0	35.5	58.7	61.3
N09-12273	27.7	60.6	34.0	47.7	51.6
N09-12838	27.3	66.7	27.4	54.4	53.8
N10-7187	27.9	71.2	20.5	55.2	57.0
N10-7189	27.1	69.8	21.9	53.9	55.1
N11-340	28.1	57.5	29.7	40.3	52.4
N11-352	40.8	65.1	27.7	51.7	54.6
N11-7089	29.2	69.9	21.8	54.7	53.8
N11-7125	33.0	62.8	23.8	41.0	53.4
N11-8508	28.0	65.9	22.3	54.1	56.2
N11-8526	26.6	68.9	28.7	44.0	55.7
R11-171	33.0	70.4	26.0	53.2	57.5
R11-2517	32.1	63.7	12.8	64.4	57.3
R12-514	50.1	72.4	19.4	55.1	55.2
R13-2423RR	49.0	62.7	20.4	49.4	53.6
R13-9736	43.1	63.7	34.4	44.9	53.4
TN11-5140	37.1	66.8	37.3	53.8	57.1
TN13-5723R2	24.9	57.3	29.4	49.4	53.6
Mean	32.3	65.3	27.6	51.0	54.9
LSD(0.05)	12.7	5.6	9.1	8.5	5.5
CV(%)	23.9	5.2	20.1	10.1	11.9

‡ Data not included in test mean due to CV > 15%.



**TABLE 72 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Stoneville, MS</b>
AG6534	10/19	10/9	10/8	10/27	10/16	10/21	10/4
NC-ROY	1	-5	3	-1	-1	1	1
G12-1475R2	-2	-2	3	-2	1	-2	3
N06-19	-14	-17	1	0	-6	-1	-5
N07-15444	0	-1	5	-1	-1	-1	-2
N08-174	-10	-17	3	0	-5	-2	-5
N09-12273	1	-6	1	0	-4	-2	1
N09-12838	-3	-2	0	-1	1	-2	2
N10-7187	1	-3	3	-1	0	-2	0
N10-7189	-1	-4	3	0	-2	-1	1
N11-340	-7	-11	2	-2	-5	0	-5
N11-352	-6	-7	3	-1	-4	0	-4
N11-7089	-3	-4	3	-2	-1	1	-1
N11-7125	-6	-12	2	0	-2	0	-3
N11-8508	2	-2	1	-1	-1	0	-1
N11-8526	-3	-4	2	-1	-3	0	-2
R11-171	-15	-18	2	-4	-5	0	-4
R11-2517	-11	-14	2	-1	-3	0	-5
R12-514	-17	-16	2	-3	-6	0	-5
R13-2423RR	-11	-15	2	2	-4	0	-2
R13-9736	-16	-17	1	-10	-6	0	-5
TN11-5140	-10	-15	2	-1	-4	0	-5
TN13-5723R2	-7	-8	1	1	1	0	-4
Mean	-6	-9	2	-1	-3	0	-2
LSD(0.05)	1	3	4	2	2	2	1
CV(%)	14	21	111	113	42	313	34

**TABLE 72 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	10/9	10/9	10/2	10/12
NC-ROY	0	-5	5	0
G12-1475R2	1	3	7	1
N06-19	-5	0	5	-4
N07-15444	-1	0	5	0
N08-174	-3	-9	2	-5
N09-12273	1	-4	-2	-2
N09-12838	0	-2	6	0
N10-7187	0	-3	8	0
N10-7189	1	-6	7	0
N11-340	-2	-4	6	-3
N11-352	-1	-3	6	-2
N11-7089	-1	-6	8	-1
N11-7125	-1	-5	0	-3
N11-8508	-1	-6	8	0
N11-8526	-1	-2	6	-1
R11-171	-7	0	6	-4
R11-2517	-5	-10	1	-5
R12-514	-5	-12	8	-5
R13-2423RR	-1	-6	7	-3
R13-9736	-10	-9	2	-7
TN11-5140	-4	-3	4	-4
TN13-5723R2	-5	-4	3	-2
Mean	-2	-4	5	-2
LSD(0.05)	2	6	9	3
CV(%)	57	94	111	172

**TABLE 73 - PLANT HEIGHT (INCHES)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	30	25	.	37	26	28	25
NC-ROY	37	30	.	42	31	32	29
G12-1475R2	37	30	.	41	35	33	28
N06-19	31	24	.	39	34	33	27
N07-15444	39	30	.	43	38	35	24
N08-174	30	22	.	36	30	31	26
N09-12273	29	25	.	36	31	34	31
N09-12838	39	33	.	38	37	38	30
N10-7187	33	31	.	39	32	37	28
N10-7189	39	32	.	44	34	34	21
N11-340	28	21	.	34	24	26	23
N11-352	27	22	.	33	24	26	21
N11-7089	35	29	.	32	28	33	20
N11-7125	29	21	.	34	22	20	23
N11-8508	35	33	.	41	34	34	26
N11-8526	36	30	.	41	29	34	30
R11-171	30	26	.	35	27	29	20
R11-2517	33	27	.	40	34	33	26
R12-514	31	26	.	34	32	29	20
R13-2423RR	37	31	.	39	34	40	26
R13-9736	32	24	.	41	30	29	24
TN11-5140	37	28	.	37	35	32	27
TN13-5723R2	31	26	.	38	31	30	20
Mean	33	27	.	38	31	32	25
LSD(0.05)	4	5	.	5	6	5	8
CV(%)	7	10	.	8	11	10	21

**TABLE 73 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	27	30	31	22	28
NC-ROY	36	35	36	26	33
G12-1475R2	35	33	35	24	33
N06-19	32	32	34	25	31
N07-15444	38	37	37	24	35
N08-174	31	29	31	21	29
N09-12273	33	34	32	23	31
N09-12838	39	43	38	26	36
N10-7187	38	35	39	23	34
N10-7189	35	39	36	24	34
N11-340	24	29	28	17	25
N11-352	25	28	29	18	25
N11-7089	35	37	35	22	31
N11-7125	26	29	31	14	25
N11-8508	39	38	37	25	34
N11-8526	35	38	35	21	33
R11-171	32	29	31	20	28
R11-2517	33	36	33	25	32
R12-514	30	29	33	21	29
R13-2423RR	40	40	39	23	35
R13-9736	36	32	34	23	31
TN11-5140	36	34	33	29	33
TN13-5723R2	34	31	33	21	30
Mean	33	34	34	23	31
LSD(0.05)	3	4	5	2	2
CV(%)	6	7	10	7	11

**TABLE 74 - PLANT LODGING (1-5)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	1.0	1.0	.	1.0	1.3	1.0	1.0
NC-ROY	2.0	1.0	.	2.7	2.0	2.7	1.3
G12-1475R2	1.0	1.0	.	2.3	2.3	2.3	1.7
N06-19	1.7	1.0	.	2.7	2.7	1.7	1.3
N07-15444	2.0	1.0	.	2.7	2.7	2.3	1.3
N08-174	1.0	1.0	.	2.7	1.3	1.7	1.3
N09-12273	1.0	1.0	.	3.3	1.7	2.7	1.7
N09-12838	2.0	1.0	.	2.7	2.7	2.3	1.3
N10-7187	1.3	1.0	.	2.7	2.3	3.0	1.7
N10-7189	2.0	1.0	.	2.7	2.3	2.3	1.0
N11-340	1.0	1.0	.	1.0	1.0	1.0	1.0
N11-352	1.0	1.0	.	1.3	1.0	1.0	1.0
N11-7089	1.3	1.0	.	3.3	1.3	2.3	1.0
N11-7125	1.0	1.0	.	1.0	1.0	1.0	1.3
N11-8508	1.7	1.0	.	2.7	1.7	2.7	1.3
N11-8526	1.7	1.0	.	2.3	1.0	2.7	1.3
R11-171	1.0	1.0	.	1.7	1.3	1.3	1.3
R11-2517	1.0	1.0	.	1.7	1.7	1.3	1.3
R12-514	1.0	1.0	.	2.3	1.0	1.0	1.0
R13-2423RR	2.0	1.0	.	3.3	1.7	3.0	1.7
R13-9736	1.0	1.0	.	1.3	1.0	1.7	1.3
TN11-5140	1.3	1.0	.	2.7	2.0	2.0	1.3
TN13-5723R2	1.0	1.0	.	1.3	2.0	1.3	1.0
Mean	1.3	1.0	.	2.2	1.7	1.9	1.3
LSD(0.05)	0.5	.	.	1.0	1.3	0.9	0.6
CV(%)	21.6	0.0	.	26.0	45.5	27.6	29.5

**TABLE 74 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassie, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	2.0	1.7	1.0	1.0	1.2
NC-ROY	3.7	3.3	2.0	1.0	2.2
G12-1475R2	2.3	2.3	2.0	1.0	1.8
N06-19	2.0	2.7	3.7	1.3	2.1
N07-15444	2.7	3.0	2.3	1.0	2.1
N08-174	2.0	2.0	1.3	1.0	1.5
N09-12273	2.0	3.7	2.0	1.0	2.0
N09-12838	2.7	3.0	2.7	1.0	2.1
N10-7187	3.0	3.3	3.0	1.0	2.2
N10-7189	3.0	3.7	3.0	1.0	2.2
N11-340	2.0	2.0	1.0	1.0	1.2
N11-352	2.3	2.3	1.0	1.0	1.3
N11-7089	3.3	3.7	2.7	1.0	2.1
N11-7125	2.0	2.0	1.3	1.0	1.3
N11-8508	3.0	4.0	1.3	1.0	2.0
N11-8526	2.0	2.3	3.0	1.0	1.8
R11-171	2.0	2.0	2.0	1.0	1.5
R11-2517	2.0	2.3	1.3	1.0	1.5
R12-514	2.0	2.0	1.3	1.0	1.4
R13-2423RR	2.3	3.3	3.3	1.0	2.3
R13-9736	2.0	2.0	1.0	1.0	1.3
TN11-5140	2.0	2.3	1.3	1.0	1.7
TN13-5723R2	2.0	2.0	1.0	1.0	1.4
Mean	2.4	2.7	1.9	1.0	1.7
LSD(0.05)	0.5	0.8	1.2	0.2	0.4
CV(%)	13.5	18.2	36.7	11.9	33.5

**TABLE 75 - SEED QUALITY (1-5)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	1.0	1.3	3.0	1.5	.	1.0	1.7
NC-ROY	1.0	1.0	4.0	1.8	.	1.0	1.3
G12-1475R2	1.0	1.0	.	1.5	.	1.0	2.0
N06-19	1.7	1.0	3.0	1.5	.	1.0	2.0
N07-15444	1.2	1.7	4.0	1.8	.	1.0	2.0
N08-174	2.3	1.0	1.0	1.8	.	1.0	2.0
N09-12273	1.8	1.3	3.0	2.0	.	1.0	1.7
N09-12838	1.2	1.0	3.0	1.5	.	1.0	1.7
N10-7187	1.2	1.0	4.0	1.8	.	1.0	1.3
N10-7189	1.3	1.0	4.0	1.5	.	1.0	1.0
N11-340	1.2	1.2	3.0	1.5	.	1.0	1.3
N11-352	1.0	1.8	2.0	1.8	.	1.0	1.3
N11-7089	1.2	1.0	3.0	1.8	.	1.0	1.7
N11-7125	1.7	2.8	4.0	1.5	.	1.0	2.0
N11-8508	1.0	1.0	3.0	1.5	.	1.0	1.3
N11-8526	1.3	1.0	4.0	1.5	.	1.0	1.7
R11-171	1.8	1.0	1.0	1.5	.	1.0	2.0
R11-2517	1.5	1.0	2.0	1.8	.	1.0	2.3
R12-514	1.3	1.5	2.0	1.5	.	1.0	2.3
R13-2423RR	2.5	1.7	2.0	1.5	.	1.0	2.3
R13-9736	1.7	1.7	1.0	1.5	.	1.0	2.3
TN11-5140	1.3	1.2	3.0	1.5	.	1.0	2.0
TN13-5723R2	1.3	1.5	3.0	1.8	.	1.0	1.7
Mean	1.4	1.3	2.8	1.6	.	1.0	1.8
LSD(0.05)	0.4	0.3	.	0.2	.	.	0.8
CV(%)	17.7	13.2	.	9.2	.	0.0	28.7

**TABLE 75 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Talleasee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	3.0	1.0	1.0	1.5	1.6
NC-ROY	3.0	1.0	1.0	1.2	1.6
G12-1475R2	4.0	1.0	1.0	1.8	1.7
N06-19	3.0	1.0	1.5	1.8	1.8
N07-15444	3.0	1.0	1.0	1.7	1.8
N08-174	2.0	3.0	1.0	1.7	1.7
N09-12273	3.0	2.0	1.3	1.8	1.9
N09-12838	3.0	2.0	1.2	1.7	1.7
N10-7187	3.0	1.0	1.0	1.5	1.7
N10-7189	3.0	1.0	1.0	1.3	1.6
N11-340	3.0	1.0	1.0	1.5	1.6
N11-352	3.0	1.0	1.0	1.8	1.6
N11-7089	3.0	1.0	1.0	1.5	1.6
N11-7125	3.0	1.0	1.0	1.5	1.9
N11-8508	3.0	1.0	1.0	1.7	1.5
N11-8526	3.0	2.0	1.0	1.5	1.8
R11-171	3.0	2.0	2.0	1.8	1.7
R11-2517	3.0	2.0	1.0	1.5	1.7
R12-514	3.0	1.0	1.0	1.5	1.6
R13-2423RR	3.0	2.0	1.2	2.2	2.0
R13-9736	3.0	2.0	1.0	1.5	1.7
TN11-5140	3.0	2.0	1.0	1.5	1.7
TN13-5723R2	3.0	1.0	1.5	1.7	1.7
Mean	3.0	1.4	1.1	1.6	1.7
LSD(0.05)	.	.	0.2	0.4	0.4
CV(%)	.	.	9.3	14.9	26.9



**TABLE 76 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	14.6	10.1	8.3	11.1	.	14.4	14.0
NC-ROY	14.4	9.7	5.9	12.0	.	13.4	13.2
G12-1475R2	14.4	9.5	.	12.6	.	15.5	12.8
N06-19	15.3	10.3	10.8	13.9	.	14.7	14.2
N07-15444	12.0	8.9	5.9	10.9	.	12.7	12.9
N08-174	17.1	11.6	12.0	12.8	.	15.8	15.5
N09-12273	18.8	12.7	7.9	13.0	.	17.3	15.4
N09-12838	13.9	9.3	5.5	13.5	.	15.3	13.6
N10-7187	14.5	9.7	5.3	12.8	.	14.0	14.0
N10-7189	14.2	9.6	5.4	12.1	.	14.0	13.6
N11-340	13.8	10.1	9.1	11.8	.	13.0	13.1
N11-352	13.2	9.2	12.4	12.6	.	12.3	12.2
N11-7089	14.6	10.0	6.2	14.3	.	14.4	13.4
N11-7125	11.1	8.2	5.9	10.9	.	12.4	10.5
N11-8508	14.4	9.8	6.2	12.3	.	14.2	13.8
N11-8526	15.7	10.2	6.6	12.4	.	15.7	13.6
R11-171	16.1	11.5	14.5	13.7	.	16.6	13.3
R11-2517	17.9	12.6	12.3	12.1	.	18.0	15.0
R12-514	16.7	11.2	10.9	13.3	.	14.7	13.2
R13-2423RR	16.3	11.0	9.8	12.8	.	14.4	13.1
R13-9736	14.2	10.4	11.2	14.5	.	13.3	12.8
TN11-5140	15.9	11.5	11.2	12.8	.	15.5	16.9
TN13-5723R2	13.7	9.8	9.1	12.5	.	14.4	12.9
Mean	14.9	10.3	8.7	12.6	.	14.6	13.6
LSD(0.05)	0.9	0.7	.	1.7	.	0.8	0.4
CV(%)	3.7	4.3	.	8.0	.	3.2	1.7

**TABLE 76 - SEED SIZE (GRAMS PER 100 SEED) (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	11.6	12.7	10.7	12.8	12.0
NC-ROY	9.4	13.3	9.2	14.1	11.5
G12-1475R2	12.4	14.5	11.1	14.4	12.6
N06-19	11.4	15.3	11.9	12.2	13.0
N07-15444	10.0	11.9	9.0	12.1	10.7
N08-174	12.1	17.3	12.2	15.7	14.2
N09-12273	13.5	18.8	12.4	17.8	14.8
N09-12838	10.0	13.3	9.7	14.1	11.9
N10-7187	10.5	13.3	9.6	13.1	11.7
N10-7189	9.2	13.1	9.6	13.7	11.5
N11-340	10.5	13.1	10.5	13.6	11.9
N11-352	11.2	11.9	9.6	12.4	11.6
N11-7089	10.3	13.5	9.2	14.4	12.1
N11-7125	13.5	10.3	8.2	11.0	10.2
N11-8508	9.6	14.3	9.3	14.5	11.9
N11-8526	10.7	14.1	10.3	13.4	12.3
R11-171	13.3	16.3	12.7	14.7	14.2
R11-2517	12.6	16.5	11.5	18.9	14.7
R12-514	12.1	15.3	10.5	14.2	13.2
R13-2423RR	12.6	14.7	10.5	14.7	13.0
R13-9736	11.7	13.7	10.4	11.8	12.3
TN11-5140	11.8	15.0	11.7	14.4	13.7
TN13-5723R2	11.2	12.5	10.9	14.0	12.1
Mean	11.4	14.1	10.5	14.0	12.5
LSD(0.05)	.	.	0.9	1.2	1.0
CV(%)	.	.	5.2	5.3	9.4

**TABLE 77 - OIL (%)†**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	19.8	18.7	.	.	.	19.7	19.1
NC-ROY	18.4	17.9	.	.	.	19.1	19.2
G12-1475R2	19.8	18.3	.	.	.	20.5	20.5
N06-19	20.4	17.8	.	.	.	20.4	20.3
N07-15444	18.6	16.5	.	.	.	19.3	18.6
N08-174	19.6	18.7	.	.	.	19.8	20.0
N09-12273	19.7	19.6	.	.	.	20.9	20.9
N09-12838	18.2	17.3	.	.	.	18.9	18.4
N10-7187	18.6	17.8	.	.	.	19.2	18.7
N10-7189	18.5	17.3	.	.	.	19.4	18.6
N11-340	20.4	18.8	.	.	.	21.2	21.3
N11-352	20.6	18.8	.	.	.	21.3	21.4
N11-7089	18.7	17.3	.	.	.	19.4	19.2
N11-7125	18.3	17.6	.	.	.	19.9	19.0
N11-8508	18.7	17.7	.	.	.	19.3	18.7
N11-8526	19.5	18.0	.	.	.	20.5	20.0
R11-171	20.5	19.7	.	.	.	20.6	21.0
R11-2517	20.7	19.0	.	.	.	20.9	22.0
R12-514	19.7	18.7	.	.	.	19.5	19.7
R13-2423RR	19.2	18.1	.	.	.	19.6	19.7
R13-9736	19.8	18.7	.	.	.	20.6	20.6
TN11-5140	20.0	19.0	.	.	.	20.6	20.5
TN13-5723R2	19.3	18.6	.	.	.	19.7	20.0
Mean	19.4	18.3	.	.	.	20.0	19.9
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 77 - OIL (%)† (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	19.5	18.7	18.5	.	19.1
NC-ROY	18.4	18.0	17.6	.	18.4
G12-1475R2	19.2	19.2	19.6	.	19.6
N06-19	19.9	19.5	19.5	.	19.7
N07-15444	18.3	18.1	17.9	.	18.2
N08-174	19.1	19.1	19.0	.	19.3
N09-12273	20.3	20.1	19.8	.	20.2
N09-12838	17.8	17.8	17.5	.	18.0
N10-7187	18.2	18.4	17.1	.	18.3
N10-7189	18.4	18.0	17.3	.	18.2
N11-340	20.2	20.0	20.3	.	20.3
N11-352	20.7	20.4	19.2	.	20.3
N11-7089	18.4	18.3	17.4	.	18.4
N11-7125	20.7	18.3	18.3	.	18.9
N11-8508	18.5	18.0	17.2	.	18.3
N11-8526	18.9	18.6	19.2	.	19.2
R11-171	20.5	20.3	19.8	.	20.3
R11-2517	20.0	20.7	20.6	.	20.6
R12-514	19.1	18.9	18.7	.	19.2
R13-2423RR	19.2	18.8	18.4	.	19.0
R13-9736	19.8	19.6	19.7	.	19.8
TN11-5140	19.6	19.5	19.7	.	19.8
TN13-5723R2	18.5	18.5	18.6	.	19.0
Mean	19.3	19.0	18.7	.	19.2
LSD	.	.	.	.	0.4
CV	.	.	.	.	2.0

**TABLE 78 - PROTEIN (%)†**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Belle Mina, AL</b>	<b>Bossier City, LA</b>	<b>Calhoun, GA</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AG6534	36.9	37.9	.	.	.	35.8	35.5
NC-ROY	38.0	37.4	.	.	.	36.2	34.8
G12-1475R2	34.6	35.5	.	.	.	34.5	31.3
N06-19	35.7	38.1	.	.	.	35.4	35.0
N07-15444	36.3	38.6	.	.	.	35.6	34.0
N08-174	35.2	36.1	.	.	.	34.0	33.7
N09-12273	37.2	37.6	.	.	.	34.7	33.4
N09-12838	38.1	37.9	.	.	.	37.7	35.6
N10-7187	37.7	37.4	.	.	.	36.0	35.2
N10-7189	37.6	37.9	.	.	.	35.0	35.9
N11-340	34.9	36.6	.	.	.	33.2	32.3
N11-352	35.1	36.2	.	.	.	33.5	32.4
N11-7089	37.6	38.1	.	.	.	35.7	35.0
N11-7125	36.3	37.7	.	.	.	33.8	33.3
N11-8508	37.2	37.3	.	.	.	36.3	36.1
N11-8526	37.3	38.6	.	.	.	36.1	34.9
R11-171	34.2	34.7	.	.	.	34.3	32.3
R11-2517	35.7	37.1	.	.	.	35.1	32.4
R12-514	37.5	37.9	.	.	.	36.3	35.4
R13-2423RR	35.0	35.4	.	.	.	34.7	32.2
R13-9736	36.4	37.0	.	.	.	35.3	33.4
TN11-5140	35.9	36.5	.	.	.	34.8	34.2
TN13-5723R2	35.5	36.2	.	.	.	34.5	33.7
Mean	36.3	37.1	.	.	.	35.2	34.0
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 78 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AG6534	36.3	37.7	37.6	.	36.8
NC-ROY	37.1	38.7	37.9	.	37.2
G12-1475R2	35.9	36.2	35.9	.	34.8
N06-19	36.3	36.9	37.3	.	36.4
N07-15444	37.5	37.8	37.2	.	36.7
N08-174	36.6	36.2	36.8	.	35.5
N09-12273	36.5	37.1	37.5	.	36.3
N09-12838	37.8	39.0	38.4	.	37.8
N10-7187	37.6	38.3	39.5	.	37.4
N10-7189	37.6	38.8	39.1	.	37.4
N11-340	34.9	35.8	35.6	.	34.8
N11-352	35.0	35.5	37.3	.	35.0
N11-7089	37.4	38.7	39.0	.	37.4
N11-7125	36.0	35.9	37.7	.	35.8
N11-8508	37.2	39.6	38.6	.	37.5
N11-8526	37.9	39.1	37.6	.	37.4
R11-171	35.5	35.2	36.6	.	34.7
R11-2517	35.9	36.5	35.8	.	35.5
R12-514	37.1	38.4	38.0	.	37.2
R13-2423RR	33.9	36.0	34.9	.	34.6
R13-9736	36.6	37.6	36.6	.	36.1
TN11-5140	36.3	37.2	36.3	.	35.9
TN13-5723R2	36.9	36.8	37.6	.	35.9
Mean	36.5	37.3	37.3	.	36.3
LSD	.	.	.	.	0.6
CV	.	.	.	.	1.6

**TABLE 79 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP VI 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AG6534	Commercial check			RR1	
2	NC-ROY	Holladay x Brim	Carter		Conv	
3	DS613-21	DS880 x PI 587905	Smith	F7	Conv	SR
4	G13-1121R2	G93-2225 x G09PR-54329R2	Li	F5d	RR2	
5	G13-1769R2	G09PR-54457R2 x {G00-3213(4) x [P97M50(3) x L85-2378]}	Li	F5d	RR2	
6	G13-2842R2	R01-2346 x [G00-3880 x RR2Y]	Li	F7d	RR2	
7	G13-2939R2	R98-209 x [G00-3880 x RR2Y]	Li	F7d	RR2	
8	G13-2947R2	R98-209 x [G00-3880 x RR2Y]	Li	F7d	RR2	
9	N10-687	NTCPR01-163 x N03-832	Mian		Conv	Diversity 25% TAMAHAKARI
10	N11-9519	Young x N02-8718	Carter	F4	Conv	Diversity 25% FUKUYATAKA
11	R12-4786	R03-1232 x R01-3474F	Chen	F5	Conv	Diversity 25%-PI 594208
12	R12-7446RY	R06-4222 x UA 4805 [R2Y1 (F2)]	Chen	F3	RR2	
13	R13-907	R05-235 x R02-3065	Chen	F4	Conv	
14	R13-13333	N06-06 x R07-1810	Chen	F4	Conv	
15	R13-14007	S07-2680 x R08-409	Chen	F4	Conv	
16	R13-14575RR	R07-6614RR x LEO 3140-07	Chen	F4	RR1	
17	SC10-258	SC98-1930/Manokin(2)	Fallen		Conv	LJ
18	TN13-5745RR1	5601T[4] x TN93-99RR	Pantalone		RR1	
19	TN15-5536	TN09-46,128 x TN11-20133	Pantalone		RR1	

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonyleurea tolerant

**TABLE 80 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST VI 2016**

STRAIN/ VARIETY	SEED		AVG.	MAT.	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK	RANK	INDEX			Race 2	Race 3	Race 5		
AG6534	42.0	7	9	0	1.6	28	4	5	5	MS	4
NC-ROY	41.4	10	11	-1	2.5	33	5	4	5	SS	3
DS613-21	30.9	19	17	-4	2.5	37	4	5	5	MS	4
G13-1121R2	40.5	12	11	1	2.8	36	3	1	4	MR	2
G13-1769R2	39.3	14	10	2	2.3	38	5	2	4	MR	2
G13-2842R2	42.8	5	7	1	1.8	31	4	2	5	SS	3
G13-2939R2	35.7	18	16	2	2.0	38	5	3	4	MS	4
G13-2947R2	41.9	8	8	1	2.1	32	4	2	5	S	5
N10-687	42.1	6	9	1	1.6	28	4	4	5	MR	2
N11-9519	37.2	17	15	-3	2.6	37	5	3	5	R	1
R12-4786	44.0	4	6	-9	1.7	26	4	3	5	R	1
R12-7446RY	45.1	1	6	-2	2.4	32	3	4	5	R	1
R13-907	45.0	2	5	-5	2.4	29	5	4	5	R	1
R13-13333	41.4	9	10	-9	2.1	32	4	2	5	R	1
R13-14007	44.2	3	5	-4	2.2	35	4	2	5	R	1
R13-14575RR	41.3	11	9	-5	2.0	33	4	4	5	R	1
SC10-258	39.2	15	11	-13	2.1	32	5	3	5	R	1
TN13-5745RR1	40.3	13	11	-4	2.1	34	4	4	5	R	1
TN15-5536	38.6	16	13	-3	1.8	30	4	3	4	R	1
Mean	40.7	.	.	-3	2.1	33	.	.	.	.	.
LSD(0.05)	5.7	.	.	4	.	3	.	.	.	.	.
CV(%)	15.4	.	.	-123	.	10	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.



**TABLE 80 - GENERAL SUMMARY OF PERFORMANCE (continued)**  
**PRELIMINARY TEST VI 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AG6534	1.7	12.2	37.6	18.7	P	T	T
NC-ROY	1.3	11.1	37.7	18.1	W	G	Br
DS613-21	1.3	12.3	36.7	19.5	P	T	Br
G13-1121R2	1.7	12.2	36.9	18.5	W	T	T
G13-1769R2	1.7	12.9	37.7	18.9	W	T	T
G13-2842R2	1.7	12.7	36.8	18.6	W	T	T
G13-2939R2	1.7	11.4	36.4	19.1	P	T	T
G13-2947R2	1.7	12.4	34.9	19.8	P	T	T
N10-687	1.7	11.3	38.3	17.2	P	T	.
N11-9519	1.7	14.9	37.8	19.1	W	G	.
R12-4786	1.7	14.2	36.7	19.1	W	G	T
R12-7446RY	1.7	11.8	36.3	18.2	P	G	T
R13-907	1.8	16.3	35.7	20.6	P	G	T
R13-13333	1.3	12.8	36.3	19.9	P	T	T
R13-14007	1.6	15.6	38.0	19.1	W	T	Br
R13-14575RR	1.9	11.3	34.9	19.2	P	G	T
SC10-258	1.3	13.5	37.2	20.0	W	G	.
TN13-5745RR1	2.0	13.1	36.6	19.2	W	G	.
TN15-5536	1.7	13.6	36.5	19.2	P	T	.
Mean	1.6	12.9	36.8	19.0	.	.	.
LSD(0.05)	0.8	0.9	0.9	0.4	.	.	.
CV(%)	28.7	5.6	1.9	1.8	.	.	.

**TABLE 81 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A) ‡</b>	<b>Test Mean</b>
AG6534	51.5	27.3	40.3	30.4	60.6	23.3	42.0
NC-ROY	49.7	22.5	34.9	26.4	73.3	14.8	41.4
DS613-21	50.2	16.0	19.4	18.9	50.0	2.3	30.9
G13-1121R2	51.5	29.2	39.8	24.1	57.9	36.3	40.5
G13-1769R2	55.9	29.7	35.6	15.0	60.3	34.3	39.3
G13-2842R2	57.2	25.9	36.6	29.1	65.3	26.2	42.8
G13-2939R2	48.6	22.1	31.3	14.8	61.7	24.4	35.7
G13-2947R2	53.5	31.3	39.9	21.9	62.9	29.9	41.9
N10-687	53.7	29.7	34.3	25.1	67.8	23.4	42.1
N11-9519	47.3	23.8	30.9	25.9	58.1	22.1	37.2
R12-4786	42.5	32.9	46.0	32.6	66.0	31.1	44.0
R12-7446RY	53.7	29.2	36.5	34.2	72.1	31.8	45.1
R13-907	54.3	29.2	40.8	37.5	63.2	32.1	45.0
R13-13333	49.3	21.7	40.0	35.0	62.7	21.1	41.4
R13-14007	53.7	31.1	42.0	28.1	66.1	24.8	44.2
R13-14575RR	54.6	19.0	36.5	28.6	68.0	21.5	41.3
SC10-258	54.3	27.3	34.8	28.5	51.1	22.0	39.2
TN13-5745RR1	48.8	22.7	37.5	24.6	68.1	32.9	40.3
TN15-5536	51.0	27.3	35.7	20.9	57.9	30.6	38.6
Mean	51.6	26.2	36.5	26.4	62.8	25.5	40.7
LSD(0.05)	8.3	9.7	5.4	13.7	4.2	7.4	5.7
CV(%)	9.6	22.1	9.0	31.1	4.0	17.3	15.4

‡ Data not included in test mean due to CV > 15%.

**TABLE 82 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	10/27	10/22	10/26	10/3	10/8	10/9	10/16
NC-ROY	-1	-1	-2	2	0	-7	-1
DS613-21	2	-6	-7	-1	-3	-11	-4
G13-1121R2	0	3	3	1	0	0	1
G13-1769R2	-1	5	3	3	2	2	2
G13-2842R2	-1	0	4	1	1	-1	1
G13-2939R2	0	2	1	3	2	3	2
G13-2947R2	-2	2	1	3	2	0	1
N10-687	-1	4	3	3	2	-4	1
N11-9519	-1	-4	-4	-2	-2	-8	-3
R12-4786	-9	-7	-10	-3	-10	-16	-9
R12-7446RY	2	0	-6	1	0	-8	-2
R13-907	0	-4	-6	-4	-7	-9	-5
R13-13333	-8	-8	-8	-5	-11	-16	-9
R13-14007	-1	-6	-6	-1	-4	-7	-4
R13-14575RR	-2	-5	-8	-3	-4	-7	-5
SC10-258	6	-8	-17	-24	-21	-16	-13
TN13-5745RR1	-1	-4	-5	-5	-5	-7	-4
TN15-5536	-1	-2	-3	-3	-1	-7	-3
Mean	-1	-2	-3	-2	-3	-6	-3
LSD(0.05)	2	2	2	1	1	5	4
CV(%)	134	43	29	51	27	46	123

**TABLE 83 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	28	18	36	27	33	27	28
NC-ROY	32	23	42	35	36	35	33
DS613-21	35	24	43	41	40	37	37
G13-1121R2	39	25	42	37	36	38	36
G13-1769R2	42	23	42	37	40	42	38
G13-2842R2	38	22	34	30	31	32	31
G13-2939R2	40	26	44	38	43	39	38
G13-2947R2	34	21	37	34	32	34	32
N10-687	26	21	35	27	33	29	28
N11-9519	36	26	42	40	40	36	37
R12-4786	26	21	31	26	25	30	26
R12-7446RY	34	25	33	34	32	35	32
R13-907	33	20	31	28	28	33	29
R13-13333	32	18	36	34	37	32	32
R13-14007	35	21	40	36	38	38	35
R13-14575RR	37	20	37	39	32	33	33
SC10-258	41	16	36	36	27	34	32
TN13-5745RR1	39	22	41	33	35	34	34
TN15-5536	32	17	35	28	34	33	30
Mean	35	22	38	34	34	34	33
LSD(0.05)	6			4	4	5	3
CV(%)	11			6	7	8	10

**TABLE 84 - PLANT LODGING (1-5)  
PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	1.3	1.8	1.8	2.0	1.7	1.0	1.6
NC-ROY	2.0	2.0	3.0	3.7	3.0	1.0	2.5
DS613-21	2.7	2.5	2.5	2.7	3.0	1.3	2.5
G13-1121R2	2.7	2.3	3.7	2.3	3.0	3.0	2.8
G13-1769R2	1.3	2.5	3.0	2.3	2.3	2.3	2.3
G13-2842R2	1.3	2.0	2.0	2.0	2.0	1.3	1.8
G13-2939R2	1.7	2.0	2.0	2.3	2.3	1.3	2.0
G13-2947R2	1.0	2.0	2.8	2.7	2.3	1.7	2.1
N10-687	1.0	1.8	1.5	2.0	2.3	1.0	1.6
N11-9519	2.3	2.0	3.0	3.0	2.7	2.7	2.6
R12-4786	1.3	1.5	2.5	2.0	2.0	1.0	1.7
R12-7446RY	2.3	2.3	3.0	2.0	2.7	2.0	2.4
R13-907	2.0	2.3	3.0	2.0	2.3	2.7	2.4
R13-13333	1.0	2.0	3.0	2.0	2.0	2.7	2.1
R13-14007	2.3	2.3	2.8	2.0	2.0	1.7	2.2
R13-14575RR	2.0	2.0	2.5	2.3	2.3	1.0	2.0
SC10-258	3.0	1.8	3.5	2.0	1.3	1.0	2.1
TN13-5745RR1	2.0	2.0	2.5	2.0	3.0	1.0	2.1
TN15-5536	2.0	1.5	2.5	2.0	2.0	1.0	1.8
Mean	1.9	2.0	2.7	2.3	2.3	1.6	2.1
LSD(0.05)	1.0	0.5	0.8	0.6	0.7	1.1	0.5
CV(%)	33.7	12.9	14.7	15.4	17.6	40.7	28.4

**TABLE 85 - SEED QUALITY (1-5)  
PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	.	.	.	3.0	1.0	1.0	1.7
NC-ROY	.	.	.	2.0	1.0	1.0	1.3
DS613-21	.	.	.	2.0	1.0	1.0	1.3
G13-1121R2	.	.	.	3.0	1.0	1.0	1.7
G13-1769R2	.	.	.	3.0	1.0	1.0	1.7
G13-2842R2	.	.	.	3.0	1.0	1.0	1.7
G13-2939R2	.	.	.	3.0	1.0	1.0	1.7
G13-2947R2	.	.	.	3.0	1.0	1.0	1.7
N10-687	.	.	.	3.0	1.0	1.0	1.7
N11-9519	.	.	.	2.0	2.0	1.0	1.7
R12-4786	.	.	.	2.0	2.0	1.0	1.7
R12-7446RY	.	.	.	2.0	2.0	1.0	1.7
R13-907	.	.	.	2.0	2.0	1.3	1.8
R13-13333	.	.	.	2.0	1.0	1.0	1.3
R13-14007	.	.	.	2.0	1.0	1.7	1.6
R13-14575RR	.	.	.	2.0	2.0	1.7	1.9
SC10-258	.	.	.	2.0	1.0	1.0	1.3
TN13-5745RR1	.	.	.	3.0	2.0	1.0	2.0
TN15-5536	.	.	.	3.0	1.0	1.0	1.7
Mean	.	.	.	2.5	1.3	1.1	1.6
LSD(0.05)	.	.	.	.	.	0.4	0.8
CV(%)	.	.	.	.	.	20.9	28.7

**TABLE 86 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	.	12.9	13.4	11.6	13.3	9.8	12.2
NC-ROY	.	11.5	11.4	10.5	13.2	9.0	11.1
DS613-21	.	12.1	12.4	11.8	14.9	10.4	12.3
G13-1121R2	.	12.9	14.5	11.2	12.7	9.8	12.2
G13-1769R2	.	14.4	14.5	11.5	13.2	10.7	12.9
G13-2842R2	.	13.8	14.6	11.6	13.8	10.1	12.7
G13-2939R2	.	12.5	12.1	10.0	13.1	9.4	11.4
G13-2947R2	.	12.2	13.0	12.6	14.0	10.1	12.4
N10-687	.	11.2	11.1	11.1	13.9	9.1	11.3
N11-9519	.	14.9	15.3	14.2	17.8	12.4	14.9
R12-4786	.	14.7	13.4	14.5	15.6	12.5	14.2
R12-7446RY	.	12.1	11.6	11.8	13.8	9.8	11.8
R13-907	.	16.5	16.6	16.0	18.4	14.0	16.3
R13-13333	.	11.8	13.6	12.5	14.5	11.3	12.8
R13-14007	.	16.6	15.3	15.5	16.8	13.9	15.6
R13-14575RR	.	11.5	11.9	10.4	12.9	9.6	11.3
SC10-258	.	14.4	13.8	11.8	15.7	11.8	13.5
TN13-5745RR1	.	12.3	12.5	12.9	15.5	12.1	13.1
TN15-5536	.	13.7	13.6	13.1	16.4	11.2	13.6
Mean	.	13.3	13.4	12.3	14.7	10.9	12.9
LSD(0.05)	.	.	.	.	.	0.6	0.9
CV(%)	.	.	.	.	.	3.5	5.6

**TABLE 87 - OIL (%)†**  
**PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	.	19.1	18.4	18.9	18.4	18.7	18.7
NC-ROY	.	18.6	17.5	18.2	18.4	17.8	18.1
DS613-21	.	20.2	18.7	19.8	20.0	18.6	19.5
G13-1121R2	.	19.3	17.7	18.4	18.5	18.4	18.5
G13-1769R2	.	18.9	18.6	18.8	19.1	19.3	18.9
G13-2842R2	.	19.0	18.3	18.8	19.3	17.7	18.6
G13-2939R2	.	19.5	18.5	19.0	19.2	19.1	19.1
G13-2947R2	.	20.5	19.2	19.6	20.0	19.5	19.8
N10-687	.	17.4	17.0	17.4	17.3	16.7	17.2
N11-9519	.	19.7	18.8	19.2	18.9	19.1	19.1
R12-4786	.	19.4	18.9	18.9	19.2	18.9	19.1
R12-7446RY	.	18.6	18.2	18.1	17.9	18.1	18.2
R13-907	.	20.9	20.9	20.9	.	19.6	20.6
R13-13333	.	20.0	19.7	20.0	19.5	20.1	19.9
R13-14007	.	19.4	19.1	19.3	19.0	18.5	19.1
R13-14575RR	.	19.5	19.1	18.9	19.4	19.1	19.2
SC10-258	.	20.5	19.7	19.6	20.0	20.1	20.0
TN13-5745RR1	.	20.5	19.0	19.2	18.9	18.6	19.2
TN15-5536	.	20.1	19.3	19.2	19.2	18.3	19.2
Mean	.	19.5	18.8	19.1	19.0	18.7	19.0
LSD	.	.	.	.	.	.	0.4
CV	.	.	.	.	.	.	1.8

†Oil percentage is reported on a 13% moisture basis beginning in 2015.



**TABLE 88 - PROTEIN (%)†**  
**PRELIMINARY GROUP VI 2016**

<b>STRAIN/ VARIETY</b>	<b>Clemson, SC</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Stoneville, MS</b>	<b>Stuttgart, AR</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AG6534	.	36.2	37.3	37.3	38.8	38.3	37.6
NC-ROY	.	36.2	37.6	37.7	38.2	39.0	37.7
DS613-21	.	34.4	37.4	36.7	36.6	38.5	36.7
G13-1121R2	.	35.3	38.3	37.1	36.8	36.9	36.9
G13-1769R2	.	37.0	37.8	37.9	37.5	38.3	37.7
G13-2842R2	.	35.7	38.0	36.6	35.9	37.8	36.8
G13-2939R2	.	35.2	36.0	36.5	36.9	37.4	36.4
G13-2947R2	.	32.7	35.0	36.0	35.1	35.5	34.9
N10-687	.	37.6	38.0	37.4	39.3	39.3	38.3
N11-9519	.	36.5	37.7	37.9	38.6	38.4	37.8
R12-4786	.	36.5	36.3	36.0	36.6	38.1	36.7
R12-7446RY	.	35.6	35.6	36.0	36.7	37.8	36.3
R13-907	.	34.8	34.2	35.2	.	38.4	35.7
R13-13333	.	35.3	35.5	36.2	37.8	36.9	36.3
R13-14007	.	37.0	37.4	37.7	37.7	40.3	38.0
R13-14575RR	.	34.1	34.1	35.5	35.1	35.7	34.9
SC10-258	.	35.2	36.8	38.0	37.9	38.0	37.2
TN13-5745RR1	.	33.7	36.4	36.6	37.7	38.8	36.6
TN15-5536	.	34.6	35.9	36.9	37.1	37.9	36.5
Mean	.	35.5	36.6	36.8	37.2	38.0	36.8
LSD	.	.	.	.	.	.	0.9
CV	.	.	.	.	.	.	1.9

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

INTENTIONALLY BLANK

**TABLE 89 - PARENTAGE OF ENTRIES  
UNIFORM GROUP VII 2016**

<i>Ent</i>	<i>Strain/Variety</i>	<i>Parentage</i>	<i>Source</i>	<i>Fn</i>	<i>Trans- genic†</i>	<i>Special Traits‡</i>
1	AGS-738RR	G99-4158 x P97M50			RR1	
2	AG7733	Commercial check			RR1	
3	N7003CN	Cook x Anand	Carter		Conv	Resistant to all field races of SCN
4	G11-2663R2	G00-3213(2) x RR2Y	Li	BC1F5d	RR2	
5	G11PR-56238R2	G00-3880(4)RR2Y	Li	BC3F3d	RR2	
6	G12-1784R2	G00-3880(4)RR2Y	Li	F5d	RR2	
7	G12-2062R2	G00-3880 x G00-3213(3)RR2Y	Li	F5d	RR2	
8	G12-2103R2	G00-3213 x G00-3880(3)RR2Y	Li	F5d	RR2	
9	G12-2731R2	N05-7452 x [G00-3213(3) RR2Y]	Li	F5d	RR2	
10	N07-15529	N7002 x PI 221717	Carter	F4	Conv	Diversity 50% PI 221717, 12.5% PI 416937
11	N09-13884	TCPR-83 x N01-11136	Carter	F4	Conv	Drought 12.5% PI 416937, 25% PI 407948
12	N09-13890	TCPR-83 x N01-11136	Carter	F4	Conv	Drought 12.5% PI 416937, 25% PI 407948
13	N10-711	NTCPR01-163 x N03-832	Mian		Conv	Diversity 25% TAMAHAKARI
14	N10-764	N03-893 x G00-3213	Mian		Conv	Diversity 12.5% PI 416937
15	N10-792	N03-893 x G00-3213	Mian		Conv	Diversity 12.5% PI 416937
16	N10-1031	NTCPR01-163 x N03-832	Mian		Conv	Diversity 25%
17	N10-7365	N01-11136 x N98-7265	Carter	F4	Conv	Drought 25% PI
18	N10-7404	N01-11136 x N98-7265	Carter	F4	Conv	Drought 25% PI
19	N11-7046	NC-Roy x LD00-3309	Carter	F4	Conv	50% Midwestern pedigree
20	N11-8042	SC97-1821 x MN0302	Carter	F4	Conv	50% Midwestern pedigree
21	N11-10295	N01-11298 x N04-9646	Carter	F4	Conv	Drought 12.5% PI 416937
22	NLM09-77	N6202 x G98SF114	Mian		Conv	High Protein/Diversity 12.5% Nakasennari, 12.55 Fukuyataka
23	SC10-397RR	SC98-2070/SC01-783RR	Fallen	F6	RR1	LJ
24	NCC06-899	R97-1634 x N97-9693	Conv		Conv	12.5% exotic from PI 416937-USDA CHECK

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 90 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST VII 2016**

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD†			PROTEIN‡			OIL‡		
			2016	15-16	14-16	2016	15-16	14-16	2016	15-16	14-16
AGS-738RR	4	10	51.1	53.3	53.9	34.9	34.0	34.2	19.3	19.2	19.2
AG7733	11	11	49.8	53.7	53.5	35.4	34.8	35.0	18.9	18.9	18.9
N7003CN	3	10	51.2	54.0	53.3	35.6	35.0	35.1	19.2	19.2	19.3
G11-2663R2	13	13	49.2	53.0	.	36.8	36.2	.	19.0	19.0	.
G11PR-56238R2	5	10	51.0	54.7	54.0	35.5	34.9	35.1	19.1	19.0	18.9
G12-1784R2	12	12	49.2	.	.	35.6	.	.	19.3	.	.
G12-2062R2	2	8	52.2	.	.	36.8	.	.	18.7	.	.
G12-2103R2	7	9	50.7	.	.	36.5	.	.	19.0	.	.
G12-2731R2	15	13	48.9	.	.	36.7	.	.	19.3	.	.
N07-15529	20	16	47.5	47.9	.	37.6	37.0	.	18.1	18.1	.
N09-13884	21	16	46.5	.	.	37.2	.	.	18.5	.	.
N09-13890	18	15	47.8	.	.	36.0	.	.	19.5	.	.
N10-711	16	12	48.8	52.9	.	36.9	36.3	.	18.7	18.8	.
N10-764	8	11	50.6	.	.	35.9	.	.	19.7	.	.
N10-792	9	11	50.4	.	.	36.3	.	.	19.7	.	.
N10-1031	10	11	49.9	52.7	.	36.9	36.1	.	18.4	18.6	.
N10-7365	17	14	48.2	.	.	35.3	.	.	19.9	.	.
N10-7404	6	10	51.0	51.4	.	34.8	34.0	.	19.3	19.4	.
N11-7046	14	13	49.0	.	.	35.8	.	.	19.0	.	.
N11-8042	19	15	47.7	.	.	36.8	.	.	19.4	.	.
N11-10295	22	17	46.3	.	.	37.6	.	.	17.9	.	.
NLM09-77	23	15	44.8	48.6	.	40.6	39.8	.	18.4	18.4	.
SC10-397RR	24	20	43.5	47.0	47.9	35.9	35.2	35.2	18.7	18.7	18.7
NCC06-899	1	7	52.9	54.5	54.7	34.8	34.4	34.6	20.2	20.1	20.1
Mean	.	.	49.1	.	.	36.3	.	.	19.0	.	.
LSD(0.05)	.	.	3.9	.	.	0.6	.	.	0.3	.	.
CV(%)	.	.	11.9	.	.	1.8	.	.	1.9	.	.

†Data not included in mean: 2016 - Kinston, NC; Tallassee, AL(A)  
2015 - Clayton, NC; Clemson, SC; Tallassee, AL(A); Bossier City, LA  
2014 - Clemson, SC; Tallassee, AL(A)

‡Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.

**TABLE 91 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST VII 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LODGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AGS-738RR	0	1.7	33	1.3	12.6	.	.	.
AG7733	3	1.3	34	1.3	14.5	.	.	.
N7003CN	4	2.0	34	1.4	15.1	W	T	.
G11-2663R2	4	1.5	33	1.3	13.9	W	T	T
G11PR-56238R2	2	1.6	33	1.4	13.9	P	T	T
G12-1784R2	0	1.6	32	1.4	13.2	P	T	T
G12-2062R2	3	1.5	33	1.3	13.6	P	T	T
G12-2103R2	5	1.6	36	1.4	15.0	W	T	T
G12-2731R2	3	1.9	34	1.4	11.5	P	T	T
N07-15529	1	1.7	30	1.5	14.5	W	G	.
N09-13884	3	2.0	35	1.5	14.1	P	T	.
N09-13890	2	1.5	34	1.5	14.0	P	T	.
N10-711	6	1.1	31	1.3	14.0	P	G	.
N10-764	0	1.3	34	1.5	14.1	W	T	.
N10-792	5	1.3	34	1.4	14.9	W	T	.
N10-1031	0	1.3	30	1.4	11.5	P	G	.
N10-7365	2	2.0	33	1.5	14.4	W	G	.
N10-7404	2	1.6	33	1.5	13.4	W	G	.
N11-7046	1	2.6	37	1.4	11.5	W	G	.
N11-8042	1	1.3	33	1.4	14.3	P	T	.
N11-10295	5	2.0	38	1.2	12.0	W	G	.
NLM09-77	-2	1.7	34	1.6	18.7	P	T	.
SC10-397RR	4	1.4	38	1.4	13.3	P	G	T
NCC06-899	3	2.3	36	1.3	14.1	W	G	.
Mean	2	1.7	34	1.4	13.8	.	.	.
LSD(0.05)	2	0.3	2	0.2	0.9	.	.	.
CV(%)	140	32.0	10	19.0	8.2	.	.	.

**TABLE 92 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST VII 2016**

<b>STRAIN/ VARIETY</b>	<b>SCN Cyst Score (1-5 Scale)†</b>			<b>PRK</b>	<b>SRK</b>	<b>SC</b>	<b>SC</b>	<b>SDS1</b>	<b>SDS2</b>	<b>SDS</b>	<b>FLS</b>
	<b>Race 2</b>	<b>Race 3</b>	<b>Race 5</b>	<b>GA</b>	<b>GA</b>	<b>RATING</b>	<b>SCORE</b>	<b>DX</b>	<b>DX</b>	<b>MEAN</b>	<b>SCORE</b>
AGS-738RR	4	1	3	4.5	1.0	MR	2.0	.	.	.	.
AG7733	5	2	5	4.8	1.0	R	1.0	.	.	.	.
N7003CN	3	2	1	4.8	1.0	MS	4.0	.	.	.	.
G11-2663R2	5	1	5	1.5	1.0	MS	4.0	.	.	.	.
G11PR-56238R2	5	1	5	3.8	1.3	MS	4.0	.	.	.	.
G12-1784R2	5	3	5	1.3	1.0	SS	3.0	.	.	.	.
G12-2062R2	5	3	5	4.3	1.0	SS	3.0	.	.	.	.
G12-2103R2	5	2	5	2.3	1.0	SS	3.0	.	.	.	.
G12-2731R2	5	2	4	4.3	1.0	SS	3.0	.	.	.	.
N07-15529	5	4	5	4.8	3.5	S	5.0	.	.	.	.
N09-13884	5	3	5	5.0	4.8	R	1.0	.	.	.	.
N09-13890	5	3	5	3.5	1.0	R	1.0	.	.	.	.
N10-711	5	3	5	3.8	1.3	SS	3.0	.	.	.	.
N10-764	5	2	5	3.3	5.0	S	5.0	.	.	.	.
N10-792	5	2	5	4.8	3.8	SS	3.0	.	.	.	.
N10-1031	5	4	5	4.5	3.8	MR	2.0	.	.	.	.
N10-7365	5	4	5	5.0	2.8	R	1.0	.	.	.	.
N10-7404	5	2	5	5.0	5.0	R	1.0	.	.	.	.
N11-7046	5	1	5	4.0	5.0	MR	2.0	.	.	.	.
N11-8042	5	2	5	2.3	1.0	MR	2.0	.	.	.	.
N11-10295	5	2	5	5.0	4.5	R	1.0	.	.	.	.
NLM09-77	5	2	5	4.0	1.0	R	1.0	.	.	.	.
SC10-397RR	4	2	5	5.0	4.3	S	5.0	.	.	.	.
NCC06-899	5	1	5	4.8	1.0	MS	4.0	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 93 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	44.0	70.5	51.0	35.2	56.8	55.0	46.2
AG7733	47.9	70.5	39.9	37.2	60.7	56.1	43.8
N7003CN	52.5	61.8	50.4	34.6	56.8	55.6	37.3
G11-2663R2	49.2	68.3	50.2	38.3	55.9	53.8	40.0
G11PR-56238R2	53.6	68.6	50.2	30.7	57.2	57.9	39.0
G12-1784R2	52.0	68.0	43.8	34.6	47.5	57.2	36.8
G12-2062R2	54.5	70.2	51.2	41.8	59.4	52.3	49.4
G12-2103R2	50.2	60.8	54.8	39.8	55.2	55.9	39.2
G12-2731R2	47.3	65.6	48.3	40.3	53.0	54.4	44.1
N07-15529	47.5	68.5	46.6	34.2	50.4	54.6	41.1
N09-13884	49.1	61.6	44.7	32.7	58.5	50.0	37.6
N09-13890	46.5	62.2	43.7	42.4	58.3	50.7	33.3
N10-711	46.6	63.6	51.5	43.9	60.9	52.2	47.8
N10-764	46.3	56.9	46.3	37.7	60.3	64.0	52.4
N10-792	45.1	65.8	43.0	40.5	57.9	63.2	39.8
N10-1031	47.7	65.7	53.0	38.6	55.9	59.2	37.1
N10-7365	51.5	58.7	50.4	39.3	50.4	55.1	40.0
N10-7404	53.6	59.5	43.6	38.1	60.3	61.7	44.6
N11-7046	47.0	62.5	47.2	31.5	52.8	58.5	49.7
N11-8042	47.2	58.7	42.2	41.1	54.3	61.1	44.6
N11-10295	45.5	59.7	46.2	37.5	58.5	44.8	41.6
NLM09-77	27.6	59.3	53.6	32.2	48.0	55.9	26.1
SC10-397RR	46.0	48.8	39.1	32.0	57.4	48.7	40.3
NCC06-899	53.5	69.1	52.9	39.2	56.5	64.8	48.4
Mean	48.0	63.5	47.7	37.2	56.0	55.9	41.7
LSD(0.05)	5.7	10.5	9.8	7.5	5.5	10.0	6.3
CV(%)	7.2	10.1	12.5	11.3	5.9	10.6	9.1

‡ Data not included in test mean due to CV > 15%.

**TABLE 93 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC ‡</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A) ‡</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	27.5	55.9	38.9	28.4	57.3	51.1
AG7733	15.3	48.0	33.2	26.8	60.9	49.8
N7003CN	30.2	55.1	38.4	26.7	69.8	51.2
G11-2663R2	22.6	49.9	36.3	27.1	50.0	49.2
G11PR-56238R2	23.8	57.6	36.1	23.9	58.2	51.0
G12-1784R2	25.1	54.8	39.0	35.6	58.1	49.2
G12-2062R2	23.3	50.3	36.4	27.4	55.9	52.2
G12-2103R2	25.4	50.7	39.2	28.5	61.5	50.7
G12-2731R2	22.5	44.8	37.3	35.3	54.3	48.9
N07-15529	19.7	49.7	28.2	31.3	54.0	47.5
N09-13884	21.6	43.2	27.5	12.9	59.2	46.5
N09-13890	24.5	47.5	35.3	25.5	57.8	47.8
N10-711	19.6	44.8	29.4	20.9	47.2	48.8
N10-764	21.2	56.4	29.0	9.8	56.8	50.6
N10-792	25.6	51.1	38.9	31.8	58.6	50.4
N10-1031	23.5	51.7	36.2	18.7	54.4	49.9
N10-7365	17.4	49.3	29.4	11.9	58.0	48.2
N10-7404	17.4	51.0	32.4	5.7	64.7	51.0
N11-7046	22.0	51.6	28.1	8.8	60.2	49.0
N11-8042	24.5	49.4	29.4	25.4	50.9	47.7
N11-10295	18.9	40.7	31.9	8.4	56.5	46.3
NLM09-77	22.9	54.5	32.7	21.3	58.7	44.8
SC10-397RR	22.2	38.2	26.9	22.0	57.1	43.5
NCC06-899	20.2	53.0	30.5	23.9	61.1	52.9
Mean	22.4	50.0	33.4	22.4	57.6	49.1
LSD(0.05)	6.4	5.4	4.7	6.2	9.4	3.9
CV(%)	17.3	6.6	8.6	16.3	9.9	11.9

‡ Data not included in test mean due to CV > 15%.



**TABLE 94 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	10/22	10/19	10/11	10/31	10/25	10/16	10/25
AG7733	-1	8	3	3	7	5	-1
N7003CN	3	6	3	2	8	6	-1
G11-2663R2	-1	8	1	4	6	2	2
G11PR-56238R2	1	0	-2	-3	4	3	-1
G12-1784R2	-2	-1	1	-2	1	1	-1
G12-2062R2	0	8	2	1	5	3	-2
G12-2103R2	2	7	4	3	6	5	0
G12-2731R2	0	7	2	3	6	5	0
N07-15529	-9	10	2	-3	5	3	1
N09-13884	2	6	3	3	6	4	1
N09-13890	2	1	3	0	6	2	2
N10-711	1	9	4	4	9	8	1
N10-764	-3	-1	2	-1	1	2	2
N10-792	-2	9	6	3	11	6	1
N10-1031	-6	1	0	-1	6	2	2
N10-7365	1	7	3	0	8	2	1
N10-7404	0	8	-1	0	7	1	2
N11-7046	0	8	-2	3	8	1	1
N11-8042	-2	0	3	-3	1	3	2
N11-10295	3	12	3	3	9	5	5
NLM09-77	-17	0	0	-9	0	1	4
SC10-397RR	0	12	1	-1	18	7	1
NCC06-899	0	8	3	3	8	6	2
Mean	-1	6	2	0	6	4	1
LSD(0.05)	1	1	4	3	2	2	2
CV(%)	56	8	146	343	25	34	116

**TABLE 94 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	10/20	10/31	10/7	10/12	10/20
AG7733	4	4	6	1	3
N7003CN	9	4	2	1	4
G11-2663R2	6	5	8	-2	4
G11PR-56238R2	3	-2	12	1	2
G12-1784R2	2	-4	7	-1	0
G12-2062R2	4	1	8	0	3
G12-2103R2	7	6	14	-1	5
G12-2731R2	2	5	7	1	3
N07-15529	3	-4	6	-2	1
N09-13884	6	1	-3	1	3
N09-13890	3	4	3	0	2
N10-711	11	5	15	-1	6
N10-764	0	1	3	-1	0
N10-792	8	6	15	-2	5
N10-1031	2	1	-3	0	0
N10-7365	1	-2	-2	-2	2
N10-7404	2	-2	-2	2	2
N11-7046	1	-5	-3	1	1
N11-8042	1	-5	5	1	1
N11-10295	6	7	3	-1	5
NLM09-77	-3	-5	7	-3	-2
SC10-397RR	5	-3	4	1	4
NCC06-899	5	-1	4	-1	3
Mean	4	1	5	0	2
LSD(0.05)	2	3	5	5	2
CV(%)	28	180	68	953	140

**TABLE 95 - PLANT HEIGHT (INCHES)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	33	36	38	31	33	30	32
AG7733	36	35	41	37	35	34	30
N7003CN	36	36	40	32	34	36	27
G11-2663R2	33	40	40	33	32	32	27
G11PR-56238R2	35	34	41	35	34	31	22
G12-1784R2	34	36	40	35	29	31	22
G12-2062R2	33	38	40	30	33	31	31
G12-2103R2	38	36	44	35	35	37	33
G12-2731R2	34	38	39	35	32	32	34
N07-15529	31	34	38	33	27	28	28
N09-13884	41	35	41	33	35	35	36
N09-13890	36	36	40	34	35	30	28
N10-711	27	33	39	25	31	28	30
N10-764	31	40	39	29	35	34	33
N10-792	32	39	43	31	36	37	27
N10-1031	28	32	37	27	30	29	26
N10-7365	35	33	37	36	34	33	26
N10-7404	33	36	42	33	34	31	28
N11-7046	39	39	43	38	34	38	38
N11-8042	33	41	38	32	33	39	27
N11-10295	40	44	45	29	36	37	44
NLM09-77	34	40	36	31	33	36	31
SC10-397RR	36	43	44	34	45	39	31
NCC06-899	34	39	42	41	31	37	35
Mean	34	37	40	33	34	34	30
LSD(0.05)	3	4	4	.	5	7	9
CV(%)	5	6	6	.	9	12	19

**TABLE 95 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	28	37	32	34	25	33
AG7733	31	36	27	35	28	34
N7003CN	32	38	33	34	30	34
G11-2663R2	33	34	33	34	24	33
G11PR-56238R2	32	38	36	38	28	33
G12-1784R2	29	37	32	35	27	32
G12-2062R2	34	37	34	33	26	33
G12-2103R2	39	39	36	38	28	36
G12-2731R2	32	36	36	34	27	34
N07-15529	27	35	27	29	25	30
N09-13884	31	40	26	32	29	35
N09-13890	31	37	35	34	29	34
N10-711	29	35	29	32	25	31
N10-764	31	38	33	32	25	34
N10-792	34	38	30	33	28	34
N10-1031	28	33	30	31	23	30
N10-7365	33	39	36	31	31	33
N10-7404	29	37	34	32	29	33
N11-7046	35	37	36	35	33	37
N11-8042	31	36	32	34	26	33
N11-10295	35	43	35	36	30	38
NLM09-77	28	38	33	37	27	34
SC10-397RR	37	45	31	34	33	38
NCC06-899	35	36	32	37	30	36
Mean	32	37	32	34	28	34
LSD(0.05)	.	3	.	4	4	2
CV(%)	.	5	.	7	8	10

**TABLE 96 - PLANT LODGING (1-5)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	1.0	2.0	3.3	1.8	1.3	2.0	2.0
AG7733	1.0	1.0	1.0	1.3	2.3	2.0	1.3
N7003CN	1.3	2.3	3.3	1.5	3.3	2.7	1.7
G11-2663R2	1.0	2.0	1.3	2.0	1.7	1.3	2.0
G11PR-56238R2	1.0	2.0	2.3	1.3	2.0	1.7	1.3
G12-1784R2	1.0	1.7	2.0	1.5	1.3	2.3	1.3
G12-2062R2	1.0	2.0	1.7	2.0	1.3	1.7	1.7
G12-2103R2	1.0	1.0	2.0	1.5	1.7	2.3	1.3
G12-2731R2	1.0	2.0	2.7	2.3	1.7	2.3	2.0
N07-15529	1.0	2.0	2.3	2.0	1.7	2.3	2.0
N09-13884	2.0	2.7	3.0	1.8	2.0	3.0	2.0
N09-13890	1.0	1.7	2.7	1.5	1.3	1.7	1.7
N10-711	1.0	1.0	1.0	1.0	1.0	1.0	1.0
N10-764	1.3	1.3	1.7	1.5	1.3	1.0	1.7
N10-792	1.0	1.3	1.3	1.0	1.3	1.0	1.7
N10-1031	1.0	2.0	1.7	1.3	1.3	1.3	1.0
N10-7365	2.0	2.3	3.0	2.3	2.3	2.3	2.0
N10-7404	1.3	2.0	2.3	2.0	1.3	1.7	2.3
N11-7046	2.0	3.0	3.3	2.5	3.7	3.3	3.0
N11-8042	1.0	1.0	1.3	1.8	1.7	1.0	1.3
N11-10295	2.0	3.0	2.3	2.0	4.0	1.7	2.7
NLM09-77	1.0	2.0	3.0	2.0	2.0	2.0	1.7
SC10-397RR	1.0	1.7	1.3	1.2	2.0	1.7	1.3
NCC06-899	1.7	3.0	3.0	2.5	2.7	3.0	1.7
Mean	1.2	1.9	2.2	1.7	1.9	1.9	1.7
LSD(0.05)	0.4	0.8	1.0	0.7	1.0	0.8	0.7
CV(%)	18.8	24.6	27.6	18.4	31.7	25.7	25.0

**TABLE 96 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	2.0	1.0	2.0	1.0	1.0	1.7
AG7733	1.5	1.0	1.5	1.0	1.0	1.3
N7003CN	1.8	1.7	1.8	1.7	1.0	2.0
G11-2663R2	2.0	1.0	2.0	1.0	1.0	1.5
G11PR-56238R2	1.8	2.0	1.8	1.3	1.0	1.6
G12-1784R2	2.0	1.7	1.8	2.0	1.0	1.6
G12-2062R2	1.8	1.7	1.5	1.0	1.0	1.5
G12-2103R2	2.3	1.0	1.8	2.0	1.0	1.6
G12-2731R2	2.0	1.3	2.0	2.3	1.0	1.9
N07-15529	1.5	1.7	1.8	1.0	1.0	1.7
N09-13884	2.0	1.7	1.8	1.0	1.0	2.0
N09-13890	1.5	1.0	1.5	1.3	1.0	1.5
N10-711	1.5	1.0	1.5	1.0	1.0	1.1
N10-764	1.8	1.0	1.5	1.0	1.0	1.3
N10-792	2.3	1.0	1.8	1.0	1.0	1.3
N10-1031	1.3	1.0	1.3	1.0	1.0	1.3
N10-7365	2.0	1.7	2.0	1.3	1.0	2.0
N10-7404	1.3	1.3	1.5	1.0	1.0	1.6
N11-7046	2.3	2.7	2.5	1.3	1.0	2.6
N11-8042	2.0	1.0	2.0	1.0	1.0	1.3
N11-10295	1.8	1.0	2.0	1.0	1.0	2.0
NLM09-77	2.0	1.0	1.8	1.0	1.0	1.7
SC10-397RR	1.5	1.0	1.5	1.3	1.0	1.4
NCC06-899	1.8	3.0	2.0	2.7	1.0	2.3
Mean	1.8	1.4	1.8	1.3	1.0	1.7
LSD(0.05)	0.6	0.5	0.6	0.9	.	0.3
CV(%)	16.2	21.8	16.9	39.6	0.0	32.3

**TABLE 97 - SEED QUALITY (1-5)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	1.5	1.3	1.5	.	.	1.0	2.0
AG7733	1.2	1.5	1.5	.	.	1.0	1.3
N7003CN	1.7	1.5	1.8	.	.	1.0	2.0
G11-2663R2	1.2	1.3	1.5	.	.	1.0	2.0
G11PR-56238R2	1.5	1.3	1.5	.	.	1.0	2.0
G12-1784R2	1.2	1.5	1.5	.	.	1.0	2.0
G12-2062R2	1.2	1.3	1.5	.	.	1.0	1.7
G12-2103R2	1.5	1.5	1.5	.	.	1.0	2.0
G12-2731R2	1.3	1.2	1.5	.	.	1.0	1.7
N07-15529	1.7	1.5	1.8	.	.	1.0	2.0
N09-13884	1.3	1.8	1.8	.	.	1.0	2.0
N09-13890	2.0	1.7	1.8	.	.	1.0	2.0
N10-711	1.2	1.0	1.8	.	.	1.0	2.0
N10-764	1.7	1.5	2.0	.	.	1.0	1.7
N10-792	1.8	1.3	1.8	.	.	1.0	1.7
N10-1031	1.5	1.0	1.8	.	.	1.0	1.7
N10-7365	2.0	1.7	1.8	.	.	1.0	1.3
N10-7404	1.8	1.5	1.8	.	.	1.0	2.0
N11-7046	1.5	1.2	1.8	.	.	1.0	2.0
N11-8042	1.5	1.7	1.5	.	.	1.0	1.7
N11-10295	1.2	1.2	1.5	.	.	1.0	2.0
NLM09-77	1.8	1.7	1.8	.	.	1.0	2.3
SC10-397RR	1.8	1.5	1.8	.	.	1.0	1.3
NCC06-899	1.0	1.2	1.8	.	.	1.0	1.7
Mean	1.5	1.4	1.7	.	.	1.0	1.8
LSD(0.05)	0.5	0.4	0.3	.	.	.	0.7
CV(%)	19.5	18.7	9.8	.	.	0.0	21.5

**TABLE 97 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	.	1.0	.	1.0	1.2	1.3
AG7733	.	1.5	.	1.0	1.5	1.3
N7003CN	.	1.0	.	1.0	1.3	1.4
G11-2663R2	.	1.0	.	1.0	1.2	1.3
G11PR-56238R2	.	1.2	.	1.0	1.5	1.4
G12-1784R2	.	1.3	.	1.0	1.5	1.4
G12-2062R2	.	1.5	.	1.0	1.5	1.3
G12-2103R2	.	1.2	.	1.0	1.5	1.4
G12-2731R2	.	2.0	.	1.0	1.5	1.4
N07-15529	.	1.7	.	1.0	1.5	1.5
N09-13884	.	1.7	.	1.0	1.5	1.5
N09-13890	.	1.3	.	1.0	1.5	1.5
N10-711	.	1.3	.	1.0	1.5	1.3
N10-764	.	1.5	.	1.3	1.5	1.5
N10-792	.	1.5	.	1.0	1.3	1.4
N10-1031	.	1.5	.	1.0	1.5	1.4
N10-7365	.	1.8	.	1.0	1.5	1.5
N10-7404	.	1.7	.	1.0	1.5	1.5
N11-7046	.	1.5	.	1.0	1.3	1.4
N11-8042	.	1.5	.	1.0	1.5	1.4
N11-10295	.	1.0	.	1.0	1.0	1.2
NLM09-77	.	1.5	.	1.0	1.5	1.6
SC10-397RR	.	1.3	.	1.0	1.5	1.4
NCC06-899	.	1.2	.	1.0	1.5	1.3
Mean	.	1.4	.	1.0	1.4	1.4
LSD(0.05)	.	0.4	.	0.1	0.2	0.2
CV(%)	.	17.3	.	5.9	9.1	18.9



**TABLE 98 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	13.6	12.9	15.6	13.9	.	13.0	13.6
AG7733	17.1	16.1	12.0	17.5	.	17.7	15.5
N7003CN	17.0	16.5	15.8	17.2	.	16.3	15.3
G11-2663R2	16.4	16.9	11.9	15.2	.	16.6	15.0
G11PR-56238R2	16.3	15.1	11.7	14.4	.	16.5	15.1
G12-1784R2	15.0	14.0	11.3	13.4	.	15.7	13.8
G12-2062R2	15.6	15.8	13.0	14.9	.	16.7	14.7
G12-2103R2	17.5	16.3	14.0	16.4	.	17.5	15.7
G12-2731R2	13.3	11.8	12.3	12.2	.	13.7	13.3
N07-15529	16.8	17.2	10.9	15.7	.	16.5	15.6
N09-13884	16.8	15.2	12.7	15.4	.	16.3	15.3
N09-13890	15.6	15.4	12.8	15.5	.	16.1	15.4
N10-711	16.5	15.1	14.6	14.2	.	16.2	16.8
N10-764	16.9	15.1	11.7	15.7	.	16.9	15.5
N10-792	17.1	16.9	13.7	15.9	.	18.3	14.5
N10-1031	13.3	11.9	14.0	12.7	.	12.3	12.1
N10-7365	17.6	17.1	12.0	15.7	.	16.9	15.0
N10-7404	16.1	14.8	12.8	15.2	.	15.3	14.2
N11-7046	13.5	13.1	13.4	12.4	.	11.8	11.9
N11-8042	16.4	16.8	13.4	13.9	.	18.3	13.9
N11-10295	13.6	13.9	12.8	12.2	.	14.1	14.7
NLM09-77	21.3	20.3	12.7	21.3	.	20.3	19.1
SC10-397RR	16.0	13.8	10.7	15.3	.	14.5	16.2
NCC06-899	16.6	15.7	11.7	15.7	.	16.4	16.3
Mean	16.1	15.3	12.8	15.1	.	16.0	14.9
LSD(0.05)	0.8	1.6	1.5	.	.	0.9	0.3
CV(%)	3.0	6.5	7.2	.	.	3.4	1.4

**TABLE 98 - SEED SIZE (GRAMS PER 100 SEED) (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	10.3	11.2	13.2	9.3	12.0	12.6
AG7733	12.1	12.0	14.0	10.6	15.4	14.5
N7003CN	14.9	12.2	16.0	10.4	15.4	15.1
G11-2663R2	11.7	12.4	14.9	10.3	12.2	13.9
G11PR-56238R2	13.2	11.8	15.3	10.6	13.7	13.9
G12-1784R2	13.4	11.4	13.4	10.5	13.4	13.2
G12-2062R2	11.4	11.1	12.7	10.1	13.3	13.6
G12-2103R2	14.5	12.1	15.3	11.5	14.7	15.0
G12-2731R2	9.6	9.1	11.6	9.1	10.4	11.5
N07-15529	12.4	14.1	13.7	12.0	15.0	14.5
N09-13884	12.9	11.9	13.7	10.5	14.6	14.1
N09-13890	11.1	11.7	15.4	10.8	14.1	14.0
N10-711	12.6	11.4	12.3	10.9	12.9	14.0
N10-764	12.4	12.8	14.6	10.3	13.7	14.1
N10-792	14.4	12.1	14.8	11.7	14.1	14.9
N10-1031	9.6	9.8	10.9	9.3	10.7	11.5
N10-7365	12.7	13.7	13.8	9.6	14.4	14.4
N10-7404	10.7	12.3	13.1	8.7	13.5	13.4
N11-7046	9.6	9.9	10.2	8.6	11.8	11.5
N11-8042	12.0	13.2	14.2	11.0	14.2	14.3
N11-10295	9.3	10.2	12.0	8.1	11.0	12.0
NLM09-77	17.8	19.4	19.3	15.8	19.0	18.7
SC10-397RR	13.4	10.9	13.5	9.2	13.6	13.3
NCC06-899	11.8	12.8	13.0	10.6	14.6	14.1
Mean	12.2	12.1	13.8	10.4	13.6	13.8
LSD(0.05)	.	0.7	.	1.1	1.0	0.9
CV(%)	.	3.6	.	6.0	4.5	8.2

**TABLE 99 - OIL (%)†**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	19.7	19.6	.	19.4	.	19.9	19.3
AG7733	19.3	18.9	.	19.2	.	19.8	19.5
N7003CN	19.3	19.6	.	19.0	.	19.9	20.3
G11-2663R2	19.7	19.4	.	18.7	.	20.0	19.6
G11PR-56238R2	19.3	19.3	.	18.7	.	19.6	20.0
G12-1784R2	19.5	19.3	.	19.3	.	20.0	20.2
G12-2062R2	19.0	19.0	.	18.9	.	19.6	19.1
G12-2103R2	19.3	19.0	.	18.8	.	19.9	19.5
G12-2731R2	19.7	19.6	.	19.4	.	19.9	19.6
N07-15529	17.7	18.7	.	18.6	.	18.8	18.0
N09-13884	18.7	19.1	.	18.7	.	19.2	18.7
N09-13890	19.6	19.6	.	19.5	.	20.4	19.5
N10-711	19.1	19.2	.	19.3	.	19.5	18.9
N10-764	20.0	19.7	.	19.6	.	20.6	20.3
N10-792	19.5	19.9	.	19.3	.	20.4	20.8
N10-1031	18.7	18.9	.	19.1	.	19.0	18.5
N10-7365	19.9	19.6	.	19.7	.	20.9	21.0
N10-7404	19.7	19.9	.	19.1	.	20.2	20.3
N11-7046	19.3	19.2	.	18.4	.	19.9	19.0
N11-8042	19.8	19.9	.	19.2	.	20.4	20.2
N11-10295	18.5	18.8	.	17.6	.	19.1	18.0
NLM09-77	17.4	18.7	.	18.6	.	18.9	18.2
SC10-397RR	18.8	18.4	.	19.0	.	19.5	19.3
NCC06-899	20.2	20.3	.	20.0	.	21.0	20.6
Mean	19.2	19.3	.	19.0	.	19.9	19.5
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 99 - OIL (%)† (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	19.8	19.1	18.9	18.4	.	19.3
AG7733	18.8	18.1	18.2	18.4	.	18.9
N7003CN	19.1	19.3	18.6	18.1	.	19.2
G11-2663R2	18.7	17.9	17.7	19.3	.	19.0
G11PR-56238R2	19.0	18.3	18.7	18.6	.	19.1
G12-1784R2	19.1	18.8	18.7	18.6	.	19.3
G12-2062R2	18.3	17.9	17.5	18.8	.	18.7
G12-2103R2	18.9	18.5	18.3	19.0	.	19.0
G12-2731R2	19.9	18.4	18.5	18.8	.	19.3
N07-15529	18.0	18.1	17.4	17.2	.	18.1
N09-13884	19.0	17.9	17.6	17.6	.	18.5
N09-13890	19.8	19.4	18.6	19.0	.	19.5
N10-711	19.3	17.3	17.8	17.6	.	18.7
N10-764	19.4	19.6	18.6	19.7	.	19.7
N10-792	19.9	18.8	18.8	19.5	.	19.7
N10-1031	18.8	17.8	17.5	17.1	.	18.4
N10-7365	20.2	19.9	19.1	19.0	.	19.9
N10-7404	19.0	19.2	18.1	18.6	.	19.3
N11-7046	19.2	18.6	18.2	18.8	.	19.0
N11-8042	19.4	18.5	18.3	18.5	.	19.4
N11-10295	17.4	17.6	16.9	17.5	.	17.9
NLM09-77	18.8	18.7	18.1	17.8	.	18.4
SC10-397RR	19.1	17.5	18.3	.	.	18.7
NCC06-899	20.4	20.2	19.1	20.0	.	20.2
Mean	19.1	18.6	18.2	18.5	.	19.0
LSD	.	.	.	.	.	0.3
CV	.	.	.	.	.	1.9

**TABLE 100 - PROTEIN (%)†  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Calhoun, GA</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>
AGS-738RR	35.6	34.7	.	33.2	.	34.7	33.9
AG7733	36.4	35.7	.	34.6	.	35.0	33.3
N7003CN	37.1	36.2	.	35.1	.	35.3	32.7
G11-2663R2	36.8	36.2	.	35.3	.	36.7	35.3
G11PR-56238R2	36.2	35.7	.	34.8	.	35.7	32.8
G12-1784R2	36.3	36.1	.	33.1	.	35.9	32.4
G12-2062R2	37.4	37.1	.	34.4	.	36.9	34.7
G12-2103R2	37.6	37.2	.	35.1	.	36.4	33.6
G12-2731R2	37.2	36.7	.	34.8	.	37.5	35.5
N07-15529	39.2	37.0	.	36.0	.	37.6	37.3
N09-13884	38.1	37.0	.	36.0	.	36.5	36.1
N09-13890	37.0	36.5	.	34.4	.	35.3	34.2
N10-711	37.8	37.3	.	34.2	.	36.7	35.4
N10-764	37.2	36.6	.	33.6	.	35.1	34.1
N10-792	37.7	36.1	.	34.8	.	36.7	32.6
N10-1031	38.2	36.6	.	34.5	.	36.2	35.6
N10-7365	36.0	35.9	.	33.7	.	35.5	32.5
N10-7404	35.6	34.2	.	33.1	.	34.4	32.8
N11-7046	37.1	35.1	.	34.9	.	35.1	35.2
N11-8042	37.2	36.8	.	35.0	.	36.2	35.4
N11-10295	37.7	36.8	.	35.8	.	38.0	36.7
NLM09-77	42.4	39.3	.	38.9	.	40.2	40.3
SC10-397RR	37.4	36.0	.	35.9	.	34.5	34.2
NCC06-899	35.7	34.8	.	33.5	.	35.3	33.9
Mean	37.3	36.3	.	34.8	.	36.1	34.6
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 100 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS-738RR	33.2	35.0	36.2	37.8	.	34.9
AG7733	34.7	36.1	36.2	36.6	.	35.4
N7003CN	35.2	35.2	35.9	38.1	.	35.6
G11-2663R2	36.3	38.4	39.0	37.2	.	36.8
G11PR-56238R2	35.8	35.8	35.9	37.0	.	35.5
G12-1784R2	36.0	36.0	36.4	37.8	.	35.6
G12-2062R2	37.1	37.8	38.0	37.4	.	36.8
G12-2103R2	36.3	36.8	37.2	38.1	.	36.5
G12-2731R2	35.3	36.9	38.4	38.0	.	36.7
N07-15529	37.0	37.6	38.2	38.8	.	37.6
N09-13884	36.1	37.7	38.0	39.1	.	37.2
N09-13890	34.4	36.2	38.2	37.6	.	36.0
N10-711	35.6	38.1	37.7	39.5	.	36.9
N10-764	35.7	35.9	37.5	37.6	.	35.9
N10-792	35.5	37.4	38.0	37.5	.	36.3
N10-1031	35.9	37.2	38.4	39.5	.	36.9
N10-7365	34.4	36.7	36.7	36.7	.	35.3
N10-7404	33.8	35.5	37.0	36.5	.	34.8
N11-7046	34.3	36.2	36.6	37.8	.	35.8
N11-8042	36.0	37.5	38.3	38.8	.	36.8
N11-10295	37.2	38.5	39.2	38.6	.	37.6
NLM09-77	40.4	40.3	41.1	42.1	.	40.6
SC10-397RR	35.6	36.7	36.7	.	.	36.1
NCC06-899	33.7	34.5	36.3	35.7	.	34.8
Mean	35.6	36.8	37.5	38.0	.	36.3
LSD	.	.	.	.	.	0.6
CV	.	.	.	.	.	1.8

**TABLE 101 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP VII 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AGS-738RR	G99-4158 x P97M50			RR1	
2	AG7733	Commercial check			RR1	
3	N7003CN	Cook x Anand	Carter		Conv	Resistant to all field races of SCN
4	G13-1089R2	G93-2225 x G09PR-54329R2	Li	F5d	RR2	
5	G13-1269R2	G09PR-54329R2 x {G00-3213(4) x [P97M50(3) x L85-2378]}	Li	F5d	RR2	
6	G13-1488R2	G09PR-54329R2 x {G00-3213(4) x [P97M50(3) x L85-2378]}	Li	F5d	RR2	
7	G13-1699R2	G09PR-54457R2 x {G00-3213(4) x [P97M50(3) x L85-2378]}	Li	F5d	RR2	
8	G13-2300R2	G09PR-54457R2 x {G00-3213(4) x [G00-3209 x G01-PR68]}	Li	F5d	RR2	
9	G13-2454R2	AU02-3104 x G00-3213(3)RR2Y	Li	F6d	RR2	
10	G13-2755R2	R01-2346 x [G00-3880 x RR2Y]	Li	F7d	RR2	
11	G13-2759R2	R01-2346 x [G00-3880 x RR2Y]	Li	F7d	RR2	
12	N11-10289	N01-11298 x N04-9646	Carter	F4	Conv	Drought 12.5% PI 416937
13	N11-10605	NC-Roy x PI 612717	Carter	F4	Conv	Diversity 50% PI 612717
14	N11-10610	NC-Roy x PI 612717	Carter	F4	Conv	Diversity 50% PI 612717
15	SC10-179	SC98-1850/Manokin(2)	Fallen		Conv	LJ
16	SC10-260	SC98-1930/Manokin(2)	Fallen		Conv	LJ
17	SC10-406RR	SC98-2070/SC01-783RR	Fallen		RR1	LJ
18	TCWN05/06-5068	Cook x SC97-1821	Carter	F4	Conv	Resistance to Mn deficiency
19	NCC06-899	R97-1634 x N97-9693	Carter		Conv	12.5% exotic from PI 416937-USDA CHECK

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 102 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST VII 2016**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK					Race 2	Race 3	Race 5		
AGS-738RR	44.5	1	3	0	1.5	33	3	1	2	MR	2
AG7733	38.3	14	11	5	1.3	34	4	.	5	R	1
N7003CN	41.7	4	7	5	1.5	34	1	1	2	MS	4
G13-1089R2	39.8	10	10	4	1.6	36	3	.	5	R	1
G13-1269R2	41.3	6	9	1	1.7	37	3	1	4	S	5
G13-1488R2	39.5	11	11	4	1.5	35	4	2	5	MR	2
G13-1699R2	38.5	13	11	4	1.7	35	1	1	1	SS	3
G13-2300R2	40.3	7	9	3	1.6	36	1	.	1	R	1
G13-2454R2	42.6	3	5	4	1.6	34	4	2	5	R	1
G13-2755R2	41.4	5	8	0	1.4	30	4	4	5	MS	4
G13-2759R2	39.9	9	11	1	1.3	35	5	4	5	MS	4
N11-10289	31.5	19	18	4	1.9	34	4	3	5	SS	3
N11-10605	40.1	8	9	-2	1.8	29	4	5	5	SS	3
N11-10610	34.5	18	13	0	1.6	28	4	4	5	MS	4
SC10-179	38.8	12	11	-9	1.5	31	4	3	5	SS	3
SC10-260	37.0	17	12	-10	1.8	30	2	1	1	SS	3
SC10-406RR	37.9	16	12	3	1.3	33	4	3	5	SS	3
TCWN05/06-5068	38.2	15	11	7	2.1	41	2	4	5	R	1
NCC06-899	43.4	2	6	2	2.0	34	4	4	5	MS	4
Mean	39.4	.	.	1	1.6	34	.	.	.	.	.
LSD(0.05)	6.0	.	.	4	.	2	.	.	.	.	.
CV(%)	14.0	.	.	256	.	9	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.



**TABLE 102 - GENERAL SUMMARY OF PERFORMANCE (continued)**  
**PRELIMINARY TEST VII 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AGS-738RR	1.3	11.8	34.9	19.2	.	.	.
AG7733	1.3	13.7	35.1	19.1	.	.	.
N7003CN	1.4	14.2	35.4	19.2	W	T	.
G13-1089R2	1.5	13.2	36.9	17.5	P	T	T
G13-1269R2	1.3	13.2	37.1	18.5	W	T	T
G13-1488R2	1.1	12.4	37.0	18.3	W	T	T
G13-1699R2	1.4	12.4	35.2	19.3	P	T	T
G13-2300R2	1.4	13.7	35.6	19.2	W	T	T
G13-2454R2	1.4	13.3	34.3	20.2	W	T	T
G13-2755R2	1.4	14.0	35.7	19.0	W	T	T
G13-2759R2	1.5	12.8	36.0	18.8	W	T	T
N11-10289	1.2	12.0	37.5	18.6	W	T	.
N11-10605	1.5	12.5	35.4	18.9	W	G	.
N11-10610	1.6	11.7	35.9	17.9	W	G	.
SC10-179	1.6	14.2	34.9	20.6	W	G	.
SC10-260	2.1	13.2	36.2	20.0	W	G	.
SC10-406RR	1.5	13.6	36.9	18.7	P	G	.
TCWN05/06-5068	1.5	14.4	36.6	18.9	W	T	.
NCC06-899	1.5	13.2	34.8	20.1	W	G	.
Mean	1.4	13.1	35.9	19.0	.	.	.
LSD(0.05)	0.4	1.2	0.9	0.5	.	.	.
CV(%)	29.4	8.4	2.1	2.1	.	.	.

**TABLE 103 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A) ‡</b>	<b>Test Mean</b>
AGS-738RR	52.2	44.6	33.6	50.2	42.0	26.9	44.5
AG7733	48.2	32.8	30.8	41.4	38.6	21.6	38.3
N7003CN	51.4	40.6	31.2	45.7	39.6	23.9	41.7
G13-1089R2	46.1	39.5	31.4	44.0	38.0	29.2	39.8
G13-1269R2	42.6	47.6	39.6	43.9	33.0	27.9	41.3
G13-1488R2	44.4	44.9	32.0	43.1	33.3	26.4	39.5
G13-1699R2	47.6	34.9	31.7	46.8	31.7	32.8	38.5
G13-2300R2	47.2	39.0	28.9	47.6	38.9	24.0	40.3
G13-2454R2	53.5	41.6	32.4	47.0	38.4	33.5	42.6
G13-2755R2	53.7	32.0	30.3	53.7	.	29.7	41.4
G13-2759R2	49.4	37.9	28.8	46.0	37.6	21.3	39.9
N11-10289	42.0	22.8	24.0	37.6	31.3	7.5	31.5
N11-10605	45.8	43.5	33.0	47.7	30.3	11.9	40.1
N11-10610	52.4	20.4	25.7	48.1	26.0	13.5	34.5
SC10-179	42.8	36.0	29.6	46.4	39.3	18.9	38.8
SC10-260	45.5	26.3	30.1	49.5	33.5	16.3	37.0
SC10-406RR	50.0	38.7	27.5	38.4	35.1	10.7	37.9
TCWN05/06-5068	47.7	39.5	39.2	35.5	30.3	20.5	38.2
NCC06-899	53.8	52.7	32.1	43.6	34.8	28.0	43.4
Mean	48.2	37.6	31.1	45.1	35.1	22.3	39.4
LSD(0.05)	6.3	5.7	6.5	5.1	5.8	6.9	6.0
CV(%)	7.9	9.2	12.5	6.8	9.9	18.8	14.0

‡ Data not included in test mean due to CV > 15%.

**TABLE 104 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	10/16	10/26	10/23	.	10/27	10/11	10/21
AG7733	6	2	5	.	5	6	5
N7003CN	6	2	6	.	4	8	5
G13-1089R2	4	2	4	.	2	8	4
G13-1269R2	1	0	3	.	2	2	1
G13-1488R2	6	0	6	.	2	4	4
G13-1699R2	6	1	6	.	3	5	4
G13-2300R2	5	1	3	.	1	6	3
G13-2454R2	5	0	2	.	5	8	4
G13-2755R2	2	1	-3	.		-2	0
G13-2759R2	3	0	2	.	2	0	1
N11-10289	7	1	6	.	8	-2	4
N11-10605	0	-3	1	.	-1	-4	-2
N11-10610	6	-3	1	.	-1	-2	0
SC10-179	-16	-3	-7	.	-14	-6	-9
SC10-260	-15	-3	-6	.	-19	-6	-10
SC10-406RR	2	-2	6	.	2	7	3
TCWN05/06-5068	10	3	7	.	11	3	7
NCC06-899	6	0	4	.	0	1	2
Mean	2	0	2	.	1	2	1
LSD(0.05)	3	2	3	.	3	5	4
CV(%)	72	-2504	68	.	318	160	256

**TABLE 105 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	35	27	31	34	32	34	33
AG7733	39	28	37	34	32	33	34
N7003CN	38	28	33	35	33	34	34
G13-1089R2	39	32	34	36	37	36	36
G13-1269R2	39	30	35	37	42	37	37
G13-1488R2	36	29	37	37	38	36	35
G13-1699R2	37	27	37	38	36	34	35
G13-2300R2	37	30	38	36	38	37	36
G13-2454R2	38	28	29	33	35	35	34
G13-2755R2	32	23	35	31	.	31	30
G13-2759R2	41	25	35	36	34	36	35
N11-10289	39	29	32	35	38	29	34
N11-10605	31	23	29	30	36	29	29
N11-10610	31	20	29	32	30	29	28
SC10-179	33	26	30	32	30	30	31
SC10-260	33	21	31	33	31	30	30
SC10-406RR	36	27	32	37	38	31	33
TCWN05/06-5068	45	35	44	42	42	40	41
NCC06-899	38	29	33	34	36	33	34
Mean	37	27	34	35	35	34	34
LSD(0.05)	4	8	.	4	.	4	2
CV(%)	6	18	.	7	.	7	9

**TABLE 106 - PLANT LODGING (1-5)  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	1.3	1.3	1.8	1.3	2.3	1.0	1.5
AG7733	1.0	1.0	1.5	1.3	1.8	1.0	1.3
N7003CN	1.0	1.3	1.8	1.7	2.5	1.0	1.5
G13-1089R2	1.3	1.7	2.0	1.3	2.5	1.0	1.6
G13-1269R2	1.3	2.0	2.2	1.0	2.0	1.7	1.7
G13-1488R2	1.0	1.7	2.0	1.0	2.0	1.3	1.5
G13-1699R2	1.3	1.7	2.2	1.0	3.0	1.3	1.7
G13-2300R2	1.0	1.7	2.0	1.3	2.8	1.0	1.6
G13-2454R2	1.0	2.0	1.8	1.0	3.0	1.0	1.6
G13-2755R2	1.0	1.0	2.0	1.0	.	1.0	1.4
G13-2759R2	1.0	1.0	2.0	1.0	1.8	1.0	1.3
N11-10289	2.7	1.7	2.0	2.0	2.0	1.0	1.9
N11-10605	2.0	1.3	2.2	1.3	2.8	1.3	1.8
N11-10610	2.0	1.3	2.0	1.0	2.5	1.0	1.6
SC10-179	1.0	1.0	2.0	1.0	3.3	1.0	1.5
SC10-260	1.3	1.3	2.0	1.3	4.0	1.0	1.8
SC10-406RR	1.0	1.0	1.5	1.0	2.0	1.0	1.3
TCWN05/06-5068	2.0	2.0	2.5	1.7	2.5	1.7	2.1
NCC06-899	2.0	1.3	2.0	2.0	3.3	1.7	2.0
Mean	1.4	1.4	2.0	1.3	2.5	1.2	1.6
LSD(0.05)	0.6	0.7	0.4	0.7	0.9	0.5	0.4
CV(%)	28.3	28.0	10.1	32.8	16.0	27.2	28.0

**TABLE 107 - SEED QUALITY (1-5)  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	1.3	1.7	.	1.0	.	1.0	1.3
AG7733	1.2	1.7	.	1.5	.	1.0	1.3
N7003CN	1.3	2.0	.	1.3	.	1.0	1.4
G13-1089R2	1.3	2.0	.	1.5	.	1.0	1.5
G13-1269R2	1.2	1.7	.	1.3	.	1.0	1.3
G13-1488R2	1.2	1.3	.	1.0	.	1.0	1.1
G13-1699R2	1.3	2.0	.	1.3	.	1.0	1.4
G13-2300R2	1.3	2.0	.	1.3	.	1.0	1.4
G13-2454R2	1.3	1.7	.	1.5	.	1.0	1.4
G13-2755R2	1.8	1.7	.	1.0	.	1.0	1.4
G13-2759R2	1.5	2.0	.	1.7	.	1.0	1.5
N11-10289	1.0	1.7	.	1.0	.	1.0	1.2
N11-10605	1.7	2.0	.	1.5	.	1.0	1.5
N11-10610	2.5	2.0	.	1.0	.	1.0	1.6
SC10-179	1.5	2.7	.	1.3	.	1.0	1.6
SC10-260	2.0	3.7	.	1.2	.	1.5	2.1
SC10-406RR	1.3	2.0	.	1.7	.	1.0	1.5
TCWN05/06-5068	1.3	2.0	.	1.5	.	1.0	1.5
NCC06-899	1.5	2.0	.	1.3	.	1.0	1.5
Mean	1.5	2.0	.	1.3	.	1.0	1.4
LSD(0.05)	0.6	0.9	.	0.4	.	0.3	0.4
CV(%)	26.2	28.3	.	19.1	.	19.4	29.4

**TABLE 108 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	12.4	14.0	11.2	10.0	13.1	10.0	11.8
AG7733	16.9	15.9	14.6	11.3	13.4	10.1	13.7
N7003CN	17.2	15.6	14.2	11.8	15.0	11.7	14.2
G13-1089R2	15.0	15.9	14.0	10.4	13.5	10.4	13.2
G13-1269R2	13.9	15.5	13.0	11.5	15.3	10.3	13.2
G13-1488R2	14.3	15.1	12.4	9.9	12.4	10.5	12.4
G13-1699R2	14.8	13.2	12.5	10.2	12.9	10.8	12.4
G13-2300R2	17.0	16.1	13.8	11.2	12.8	11.2	13.7
G13-2454R2	15.8	14.8	12.1	12.2	13.4	11.4	13.3
G13-2755R2	16.8	16.0	13.6	12.4	.	10.9	14.0
G13-2759R2	15.4	13.6	13.8	11.2	13.0	10.1	12.8
N11-10289	15.3	12.9	11.6	11.1	12.2	8.6	12.0
N11-10605	15.6	14.3	12.2	11.8	11.3	9.5	12.5
N11-10610	15.2	12.8	11.0	11.4	10.4	8.8	11.7
SC10-179	15.1	19.2	12.7	12.8	14.4	10.4	14.2
SC10-260	14.4	13.4	13.5	12.8	13.5	11.6	13.2
SC10-406RR	16.0	16.3	14.8	10.3	14.4	10.0	13.6
TCWN05/06-5068	18.2	14.3	16.2	12.1	15.6	10.5	14.4
NCC06-899	16.8	13.9	13.2	11.5	12.8	11.0	13.2
Mean	15.6	14.9	13.2	11.4	13.3	10.4	13.1
LSD(0.05)	1.2	0.5	.	1.1	.	1.1	1.2
CV(%)	4.5	2.0	.	5.7	.	6.2	8.4

**TABLE 109 - OIL (%)†**  
**PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	19.5	20.0	19.2	19.2	18.9	18.1	19.2
AG7733	19.2	19.7	18.7	18.3	19.0	19.4	19.1
N7003CN	19.2	19.9	19.3	19.2	19.0	18.4	19.2
G13-1089R2	18.0	17.8	17.8	17.1	16.8	17.4	17.5
G13-1269R2	18.8	19.1	18.4	18.5	17.4	18.6	18.5
G13-1488R2	19.1	19.3	17.9	18.0	17.3	18.4	18.3
G13-1699R2	19.9	19.8	19.5	18.5	18.8	19.5	19.3
G13-2300R2	19.3	19.7	19.0	19.0	18.8	19.2	19.2
G13-2454R2	20.4	20.7	19.8	19.9	19.6	20.7	20.2
G13-2755R2	19.1	19.6	19.8	19.2	17.7	18.7	19.0
G13-2759R2	18.9	19.7	19.4	18.4	18.1	18.2	18.8
N11-10289	18.9	19.4	18.4	18.4	17.6	18.6	18.6
N11-10605	19.0	19.8	18.6	19.4	18.2	18.6	18.9
N11-10610	18.0	18.5	18.3	18.1	17.4	17.2	17.9
SC10-179	20.2	21.2	20.8	20.8	20.0	20.4	20.6
SC10-260	19.8	21.3	19.2	20.4	19.6	19.7	20.0
SC10-406RR	19.0	19.3	18.8	17.6	18.4	18.9	18.7
TCWN05/06-5068	19.4	19.8	19.8	17.7	18.2	18.3	18.9
NCC06-899	20.2	21.0	20.0	19.5	19.8	20.2	20.1
Mean	19.3	19.8	19.1	18.8	18.5	18.9	19.0
LSD	.	.	.	.	.	.	0.5
CV	.	.	.	.	.	.	2.1

†Oil percentage is reported on a 13% moisture basis beginning in 2015.



**TABLE 110 - PROTEIN (%)†  
PRELIMINARY GROUP VII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Plymouth, NC</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS-738RR	35.0	33.5	33.9	34.4	36.0	36.5	34.9
AG7733	37.2	32.8	35.3	36.0	34.7	34.8	35.1
N7003CN	37.4	33.1	34.7	35.2	34.8	37.1	35.4
G13-1089R2	37.5	35.6	35.5	36.5	38.5	37.8	36.9
G13-1269R2	37.3	34.8	36.2	36.3	40.1	37.6	37.1
G13-1488R2	37.8	33.8	37.2	36.8	38.6	37.9	37.0
G13-1699R2	35.7	32.8	34.3	35.4	36.3	36.4	35.2
G13-2300R2	36.5	34.1	36.0	35.2	35.4	36.6	35.6
G13-2454R2	35.5	31.9	33.9	34.6	35.4	34.5	34.3
G13-2755R2	36.5	34.3	34.5	35.1	37.3	36.4	35.7
G13-2759R2	37.0	33.5	35.4	36.1	37.5	36.4	36.0
N11-10289	37.3	35.1	37.8	38.1	39.1	37.4	37.5
N11-10605	37.2	32.9	35.4	34.6	36.1	36.4	35.4
N11-10610	37.5	34.4	34.8	36.0	36.1	36.7	35.9
SC10-179	35.7	34.9	33.6	34.2	35.3	35.4	34.9
SC10-260	36.8	36.0	36.4	34.7	36.1	37.3	36.2
SC10-406RR	37.9	36.0	36.7	36.9	37.5	36.4	36.9
TCWN05/06-5068	36.8	34.2	36.1	37.3	37.6	37.7	36.6
NCC06-899	35.6	32.6	34.5	34.8	35.5	35.5	34.8
Mean	36.7	34.0	35.4	35.7	36.7	36.6	35.9
LSD	.	.	.	.	.	.	0.9
CV	.	.	.	.	.	.	2.1

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

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**TABLE 111 - PARENTAGE OF ENTRIES  
UNIFORM GROUP VIII 2016**

<b>Ent</b>	<b>Strain/Variety</b>	<b>Parentage</b>	<b>Source</b>	<b>Fn</b>	<b>Trans- genic†</b>	<b>Special Traits‡</b>
1	AGS828RR	Commercial check	RR1		RR1	
2	N8001	N7001 x Cook	Conv		Conv	Diversity
3	N8002	N7001 x Cook	Carter		Conv	
4	AG7934	Commercial check			RR1	
5	G11-1614R2	G99-3211 x [G00-3213 x RR2Y]	Li	F5d	RR2	
6	G11PR-56151R2	G00-3213(4) x RR2Y	Li	BC3F3d	RR2	
7	G12-2259R2	G00-3213 x G00-3880(3)RR2Y	Li	F5d	RR2	
8	G12-3107R2	AU02-2814 x (G00-3880 x RR2Y)	Li	F6d	RR2	
9	G12-6515	G00-3213(3) x [G00-3209 x G01-PR68]	Li	F5d	Conv	
10	G12-6543	G00-3213(3) x [G00-3209 x G01-PR68]	Li	F5d	Conv	
11	SC09-210RR	SC01-809RR/G99-3211	Fallen	F7	RR1	LJ
12	SC10-394RR	SC98-2070/SC01-783RR	Fallen	F6	RR1	LJ
13	SC10-455RR	SC98-2070/SC01-783RR	Fallen	F6	RR1	LJ

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 112 - GENERAL SUMMARY OF PERFORMANCE  
UNIFORM TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>RANK</b>	<b>AVG. RANK</b>	<b>YIELD†</b>			<b>PROTEIN‡</b>			<b>OIL‡</b>		
			<b>2016</b>	<b>15-16</b>	<b>14-16</b>	<b>2016</b>	<b>15-16</b>	<b>14-16</b>	<b>2016</b>	<b>15-16</b>	<b>14-16</b>
AGS828RR	6	5	45.1	48.4	47.5	37.0	36.1	36.1	18.4	18.6	18.6
N8001	10	9	42.3	48.3	46.8	36.9	36.0	36.0	18.0	18.0	18.1
N8002	8	6	44.5	49.7	49.2	36.9	36.3	36.1	18.1	18.2	18.4
AG7934	7	6	45.0	51.2	51.4	36.3	35.7	35.7	19.5	19.4	19.5
G11-1614R2	.	.	.	54.4	.	.	34.9	.	.	19.6	.
G11PR-56151R2	1	3	48.0	53.6	51.5	37.0	36.4	36.5	19.1	19.1	19.2
G12-2259R2	3	5	47.2	.	.	37.9	.	.	18.8	.	.
G12-3107R2	5	5	46.3	.	.	35.6	.	.	19.8	.	.
G12-6515	4	5	47.2	.	.	36.2	.	.	19.8	.	.
G12-6543	2	5	48.0	.	.	36.7	.	.	19.4	.	.
SC09-210RR	11	10	39.9	45.9	45.5	36.8	36.1	35.9	18.6	18.6	18.7
SC10-394RR	9	9	42.4	47.5	47.4	36.9	36.1	36.0	18.1	18.1	18.2
SC10-455RR	12	11	38.4	44.7	.	37.9	37.3	.	18.4	18.5	.
Mean	.	.	44.5	.	.	36.8	.	.	18.8	.	.
LSD(0.05)	.	.	3.7	.	.	0.7	.	.	0.4	.	.
CV(%)	.	.	12.3	.	.	2.1	.	.	2.4	.	.

†Data not included in mean: 2016 - Warsaw, VA

2015 - Clayton, NC; Clemson, SC; Tallassee, AL(A); Tallassee, AL(B)

2014 - Clemson, SC; Tallassee, AL(A); Tallassee, AL(B)

‡Protein percentage and oil percentage reported on a 13% moisture basis beginning in 2015.

**TABLE 113 - GENERAL SUMMARY OF BOTANICAL TRAITS  
UNIFORM TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>MAT. INDEX</b>	<b>LOGGING</b>	<b>HEIGHT</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>FL. COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AGS828RR	0	2.1	33	1.2	11.9	.	.	.
N8001	1	2.5	37	1.3	12.9	P	G	.
N8002	3	2.4	32	1.4	12.5	.	.	.
AG7934	1	1.5	34	1.5	13.1	.	.	.
G11-1614R2	.	.	.	.	.	P	T	T
G11PR-56151R2	0	2.0	36	1.2	13.7	W	T	T
G12-2259R2	3	1.4	35	1.1	13.7	W	T	T
G12-3107R2	0	1.6	34	1.1	11.3	W	T	T
G12-6515	1	1.9	35	1.2	12.9	W	T	T
G12-6543	2	1.8	37	1.2	12.8	W	T	T
SC09-210RR	4	1.8	39	1.4	13.0	W	G	T
SC10-394RR	3	1.3	39	1.4	13.1	P	G	T
SC10-455RR	4	1.4	38	1.3	12.0	P	G	T
Mean	2	1.8	36	1.3	12.8	.	.	.
LSD(0.05)	2	0.3	2	0.2	0.7	.	.	.
CV(%)	166	28.0	9	20.0	6.9	.	.	.

**TABLE 114 - GENERAL SUMMARY OF PEST REACTION  
UNIFORM TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>SCN Cyst Score (1-5 Scale)†</b>			<b>PRK</b>	<b>SRK</b>	<b>SC</b>	<b>SC</b>	<b>SDS1</b>	<b>SDS2</b>	<b>SDS</b>	<b>FLS</b>
	<b>Race 2</b>	<b>Race 3</b>	<b>Race 5</b>	<b>GA</b>	<b>GA</b>	<b>RATING</b>	<b>SCORE</b>	<b>DX</b>	<b>DX</b>	<b>MEAN</b>	<b>SCORE</b>
AGS828RR	5	4	4	4.5	1.0	R	1.0	.	.	.	.
N8001	4	4	5	4.0	2.0	MS	4.0	.	.	.	.
N8002	5	4	5	4.5	3.3	SS	3.0	.	.	.	.
AG7934	4	4	2	4.3	1.0	MR	2.0	.	.	.	.
G11-1614R2	.	.	.	.	.	.	.	.	.	.	.
G11PR-56151R2	5	1	4	4.5	1.0	SS	3.0	.	.	.	.
G12-2259R2	4	2	5	1.0	1.0	SS	3.0	.	.	.	.
G12-3107R2	5	5	5	4.8	1.0	R	1.0	.	.	.	.
G12-6515	4	1	4	1.0	1.0	SS	3.0	.	.	.	.
G12-6543	5	1	5	1.5	1.0	MS	4.0	.	.	.	.
SC09-210RR	3	1	5	3.5	1.0	R	1.0	.	.	.	.
SC10-394RR	5	3	5	5.0	5.0	S	5.0	.	.	.	.
SC10-455RR	3	3	5	5.0	5.0	R	1.0	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

**TABLE 115 - SEED YIELD (BUSHEL PER ACRE)  
UNIFORM TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	49.9	63.8	31.1	59.2	55.3	41.1	23.8
N8001	47.1	56.8	26.5	53.9	54.7	52.9	19.3
N8002	50.4	61.8	34.0	59.0	56.6	42.7	22.4
AG7934	49.3	58.4	34.9	57.2	53.0	57.8	22.2
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	50.5	61.5	31.1	57.6	59.3	56.4	29.1
G12-2259R2	46.9	69.5	27.9	55.2	62.8	59.4	27.4
G12-3107R2	47.5	72.1	30.4	55.9	57.8	51.3	20.3
G12-6515	48.4	66.3	29.9	57.0	66.2	55.6	20.3
G12-6543	44.2	68.6	29.8	60.5	62.8	56.7	26.8
SC09-210RR	48.2	53.7	28.8	48.6	47.5	38.7	21.7
SC10-394RR	45.6	62.2	28.1	52.6	58.5	50.8	18.6
SC10-455RR	45.7	58.3	27.1	51.3	41.7	49.4	21.8
Mean	47.8	62.8	30.0	55.7	56.4	51.1	22.8
LSD(0.05)	6.3	10.4	5.0	5.9	10.4	4.5	5.3
CV(%)	7.8	9.8	9.8	6.3	10.9	5.1	13.6

**TABLE 115 - SEED YIELD (BUSHEL PER ACRE) (continued)**  
**UNIFORM TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A) ‡</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	38.3	30.2	31.1	57.9	45.1
N8001	36.2	16.3	25.0	50.3	42.3
N8002	30.0	11.4	30.6	57.8	44.5
AG7934	37.3	26.3	28.5	51.3	45.0
G11-1614R2	.	.	.	.	.
G11PR-56151R2	43.5	32.9	37.7	53.6	48.0
G12-2259R2	43.6	34.5	31.6	48.1	47.2
G12-3107R2	39.5	32.6	34.3	54.3	46.3
G12-6515	39.4	36.9	39.6	49.5	47.2
G12-6543	39.5	33.1	40.6	50.1	48.0
SC09-210RR	31.8	23.5	31.3	48.3	39.9
SC10-394RR	33.5	8.1	20.9	53.3	42.4
SC10-455RR	30.6	6.1	14.8	43.1	38.4
Mean	36.9	24.3	30.5	51.5	44.5
LSD(0.05)	4.6	6.6	4.5	11.7	3.7
CV(%)	7.4	16.1	8.7	13.5	12.3



**TABLE 116 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	10/23	10/28	11/2	11/2	10/19	11/7	10/26
N8001	3	2	1	1	-1	-2	0
N8002	3	0	5	3	6	-1	5
AG7934	-1	0	5	3	0	4	3
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	-2	-2	0	1	1	0	0
G12-2259R2	1	1	2	1	7	-2	4
G12-3107R2	-2	-2	2	2	2	1	-3
G12-6515	-2	-2	2	1	4	2	1
G12-6543	-3	0	3	2	5	4	4
SC09-210RR	4	6	8	3	7	2	1
SC10-394RR	-4	5	8	8	5	6	0
SC10-455RR	-2	4	11	12	1	3	1
Mean	0	1	4	3	3	1	1
LSD(0.05)	1	1	2	3	3	1	2
CV(%)	180	58	30	51	59	37	58

**TABLE 116 - RELATIVE MATURITY (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	10/14	10/21	10/13	10/25
N8001	-2	0	3	1
N8002	0	3	3	3
AG7934	2	-1	-3	1
G11-1614R2	.	.	.	.
G11PR-56151R2	1	-2	1	0
G12-2259R2	9	5	2	3
G12-3107R2	-2	-2	-1	0
G12-6515	5	0	2	1
G12-6543	5	4	1	2
SC09-210RR	5	3	2	4
SC10-394RR	-2	9	-2	3
SC10-455RR	0	6	0	4
Mean	2	2	1	2
LSD(0.05)	4	4	.	2
CV(%)	134	116	0	166

**TABLE 117 - PLANT HEIGHT (INCHES)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	39	36	21	34	29	34	38
N8001	40	42	28	35	39	38	34
N8002	35	36	27	36	35	32	31
AG7934	39	35	28	35	31	33	34
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	40	42	30	36	34	35	35
G12-2259R2	37	40	26	35	37	37	35
G12-3107R2	39	40	24	34	34	33	31
G12-6515	39	40	29	34	35	34	33
G12-6543	40	43	32	36	39	37	37
SC09-210RR	47	44	28	38	40	37	40
SC10-394RR	40	46	26	45	41	37	35
SC10-455RR	43	45	27	44	43	35	34
Mean	40	41	27	37	37	35	35
LSD(0.05)	5	4	.	4	6	5	.
CV(%)	8	6	.	6	10	8	.

**TABLE 117 - PLANT HEIGHT (INCHES) (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	35	34	31	29	33
N8001	42	37	36	30	37
N8002	39	28	30	28	33
AG7934	38	36	31	31	34
G11-1614R2	.	.	.	.	.
G11PR-56151R2	42	37	37	30	36
G12-2259R2	42	35	33	29	35
G12-3107R2	39	36	33	32	34
G12-6515	41	36	34	27	35
G12-6543	41	35	35	29	37
SC09-210RR	46	38	36	31	39
SC10-394RR	45	35	38	32	39
SC10-455RR	44	32	35	30	38
Mean	41	35	34	30	36
LSD(0.05)	2	4	5	6	2
CV(%)	3	7	9	12	9

**TABLE 118 - PLANT LODGING (1-5)  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	1.7	2.0	1.8	2.7	2.3	2.7	2.0
N8001	2.0	2.0	1.8	4.0	3.0	3.0	2.0
N8002	2.0	2.7	2.5	4.0	2.7	2.7	2.0
AG7934	1.3	1.0	2.0	2.7	1.7	1.7	1.8
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	1.3	2.3	2.3	2.7	2.3	3.0	2.3
G12-2259R2	1.0	1.3	1.5	2.0	1.7	2.0	2.0
G12-3107R2	1.0	1.3	1.5	3.0	2.0	2.3	2.0
G12-6515	1.3	1.7	1.8	3.0	2.0	2.7	2.0
G12-6543	1.0	1.0	1.8	3.3	1.7	3.0	2.0
SC09-210RR	1.3	2.3	2.0	3.0	1.7	2.3	2.0
SC10-394RR	1.0	2.0	1.3	2.3	1.3	1.3	1.5
SC10-455RR	1.0	1.7	1.5	3.0	1.3	1.3	1.5
Mean	1.3	1.8	1.8	3.0	2.0	2.3	1.9
LSD(0.05)	0.6	0.7	0.5	1.0	0.8	0.7	0.3
CV(%)	26.9	23.8	14.0	18.9	24.0	17.9	7.2

**TABLE 118 - PLANT LODGING (1-5) (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallasse, AL(A)</b>	<b>Tallasse, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	2.3	2.0	2.3	1.0	2.1
N8001	2.7	1.7	4.0	1.0	2.5
N8002	2.7	1.3	2.7	1.0	2.4
AG7934	1.3	1.0	1.3	1.0	1.5
G11-1614R2	.	.	.	.	.
G11PR-56151R2	1.0	2.3	1.3	1.0	2.0
G12-2259R2	1.0	1.0	1.0	1.0	1.4
G12-3107R2	1.0	1.3	1.0	1.0	1.6
G12-6515	2.0	2.0	1.7	1.0	1.9
G12-6543	1.3	1.7	1.7	1.0	1.8
SC09-210RR	2.0	1.3	1.3	1.0	1.8
SC10-394RR	1.0	1.0	1.0	1.0	1.3
SC10-455RR	1.0	1.0	1.0	1.0	1.4
Mean	1.6	1.5	1.7	1.0	1.8
LSD(0.05)	0.8	0.6	0.8	.	0.3
CV(%)	29.3	25.5	28.0	0.0	28.5

**TABLE 119 - SEED QUALITY (1-5)  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	1.2	1.3	.	.	1.0	1.0	.
N8001	1.2	1.2	.	.	1.0	1.7	.
N8002	1.5	1.3	.	.	1.3	1.7	.
AG7934	1.5	1.5	.	.	1.3	1.7	.
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	1.0	1.2	.	.	1.0	2.0	.
G12-2259R2	1.0	1.0	.	.	1.0	1.0	.
G12-3107R2	1.2	1.2	.	.	1.0	1.0	.
G12-6515	1.0	1.3	.	.	1.0	1.3	.
G12-6543	1.5	1.3	.	.	1.0	1.3	.
SC09-210RR	1.5	1.7	.	.	1.0	2.0	.
SC10-394RR	1.5	1.5	.	.	1.0	1.7	.
SC10-455RR	1.2	1.5	.	.	1.0	1.3	.
Mean	1.3	1.3	.	.	1.0	1.5	.
LSD(0.05)	0.3	0.4	.	.	.	0.7	.
CV(%)	12.7	17.7	.	.	0.0	30.0	.

**TABLE 119 - SEED QUALITY (1-5) (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	1.5	1.0	1.0	1.5	1.2
N8001	1.7	1.0	1.0	1.5	1.3
N8002	2.0	1.0	1.0	1.5	1.4
AG7934	1.7	1.5	1.0	1.8	1.5
G11-1614R2	.	.	.	.	.
G11PR-56151R2	1.0	1.0	1.0	1.5	1.2
G12-2259R2	1.0	1.0	1.0	1.7	1.1
G12-3107R2	1.3	1.0	1.0	1.5	1.1
G12-6515	1.2	1.0	1.0	1.7	1.2
G12-6543	1.0	1.0	1.0	1.5	1.2
SC09-210RR	1.5	1.0	1.0	1.8	1.4
SC10-394RR	1.8	1.0	1.0	1.5	1.4
SC10-455RR	1.5	1.0	1.0	1.8	1.3
Mean	1.4	1.0	1.0	1.6	1.3
LSD(0.05)	0.4	.	.	0.4	0.2
CV(%)	16.5	0.0	0.0	14.6	20.5



**TABLE 120 - SEED SIZE (GRAMS PER 100 SEED)  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	13.8	13.7	13.5	.	13.6	13.7	12.4
N8001	15.9	15.7	14.3	.	15.9	14.4	12.2
N8002	14.4	15.1	14.8	.	14.7	14.3	11.2
AG7934	15.0	13.8	16.2	.	15.7	16.9	13.1
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	15.6	15.6	16.4	.	17.5	16.3	12.7
G12-2259R2	15.5	15.6	15.3	.	17.2	16.0	13.4
G12-3107R2	12.6	13.4	13.6	.	14.1	12.5	8.9
G12-6515	14.3	15.2	14.3	.	17.4	14.6	10.6
G12-6543	13.4	15.1	14.9	.	17.2	14.2	11.5
SC09-210RR	15.3	15.1	15.7	.	14.6	15.5	12.2
SC10-394RR	15.6	14.7	15.5	.	14.7	17.5	12.4
SC10-455RR	14.0	13.9	14.0	.	12.6	15.6	11.9
Mean	14.6	14.7	14.9	.	15.4	15.1	11.9
LSD(0.05)	0.9	1.4	1.2	.	0.9	0.3	.
CV(%)	3.6	5.8	3.5	.	3.6	1.3	.

**TABLE 120 - SEED SIZE (GRAMS PER 100 SEED) (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	9.7	9.4	10.2	9.4	11.9
N8001	11.1	9.6	10.9	9.3	12.9
N8002	10.1	9.6	11.0	9.6	12.5
AG7934	10.5	9.7	11.2	9.0	13.1
G11-1614R2	.	.	.	.	.
G11PR-56151R2	11.0	10.9	12.6	8.7	13.7
G12-2259R2	12.2	11.5	11.7	8.9	13.7
G12-3107R2	9.2	9.5	10.4	8.8	11.3
G12-6515	10.6	10.9	12.1	8.9	12.9
G12-6543	10.2	10.5	12.0	8.5	12.8
SC09-210RR	10.8	9.8	12.0	9.4	13.0
SC10-394RR	10.5	10.0	11.5	9.0	13.1
SC10-455RR	9.4	9.4	10.5	8.9	12.0
Mean	10.4	10.1	11.3	9.0	12.8
LSD(0.05)	0.6	0.7	0.7	0.7	0.7
CV(%)	3.5	4.2	3.9	4.8	6.9

**TABLE 121 - OIL (%)†**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	18.3	18.5	18.5	.	19.1	18.6	18.4
N8001	18.3	18.5	18.4	.	18.5	18.5	18.0
N8002	18.2	18.5	18.7	.	18.9	19.1	17.4
AG7934	19.8	19.9	19.4	.	20.8	19.9	19.2
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	19.1	18.9	19.2	.	19.7	19.3	18.6
G12-2259R2	19.3	18.7	18.8	.	19.5	18.7	18.3
G12-3107R2	20.2	19.9	19.7	.	20.5	19.5	20.7
G12-6515	19.7	19.7	19.2	.	20.8	20.0	18.7
G12-6543	19.3	19.6	19.0	.	20.7	20.2	18.5
SC09-210RR	18.9	18.7	18.7	.	19.4	18.6	19.0
SC10-394RR	18.3	18.3	18.1	.	19.2	18.8	18.2
SC10-455RR	18.9	18.7	18.8	.	19.3	19.5	18.4
Mean	19.0	19.0	18.9	.	19.7	19.2	18.6
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Oil percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 121 - OIL (%)† (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	18.4	17.3	18.3	.	18.4
N8001	17.7	16.3	17.5	.	18.0
N8002	16.7	17.6	17.8	.	18.1
AG7934	18.8	18.8	19.0	.	19.5
G11-1614R2	.	.	.	.	.
G11PR-56151R2	18.6	18.6	19.5	.	19.1
G12-2259R2	18.5	18.9	18.7	.	18.8
G12-3107R2	19.3	18.7	19.4	.	19.8
G12-6515	19.2	20.1	20.5	.	19.8
G12-6543	18.5	18.3	20.1	.	19.4
SC09-210RR	18.0	17.5	18.4	.	18.6
SC10-394RR	17.3	16.7	17.6	.	18.1
SC10-455RR	17.7	17.5	17.1	.	18.4
Mean	18.2	18.0	18.7	.	18.8
LSD	.	.	.	.	0.4
CV	.	.	.	.	2.4

**TABLE 122 - PROTEIN (%)†  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Athens, GA(B)</b>	<b>Clayton, NC</b>	<b>Clemson, SC</b>	<b>Fairhope, AL</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>
AGS828RR	38.0	37.1	35.6	.	36.7	35.5	36.6
N8001	37.8	36.4	34.0	.	36.9	34.3	36.3
N8002	37.9	37.1	34.5	.	36.6	33.7	37.3
AG7934	36.6	35.7	35.7	.	35.3	35.1	36.4
G11-1614R2	.	.	.	.	.	.	.
G11PR-56151R2	37.7	37.3	35.3	.	37.2	35.0	36.5
G12-2259R2	37.3	37.9	35.5	.	38.2	36.8	38.5
G12-3107R2	36.7	36.0	34.0	.	35.9	34.4	31.0
G12-6515	37.3	36.5	35.2	.	35.9	33.8	36.5
G12-6543	37.7	36.6	35.1	.	36.1	33.9	37.1
SC09-210RR	37.2	36.4	34.7	.	37.2	35.9	35.3
SC10-394RR	38.0	36.3	36.0	.	35.7	34.9	36.4
SC10-455RR	38.0	37.8	35.7	.	37.4	35.7	38.2
Mean	37.5	36.8	35.1	.	36.6	34.9	36.3
LSD	.	.	.	.	.	.	.
CV	.	.	.	.	.	.	.

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

**TABLE 122 - PROTEIN (%)† (continued)**  
**UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Tallassee, AL(B)</b>	<b>Tifton, GA</b>	<b>Test Mean</b>
AGS828RR	35.7	39.6	38.0	.	37.0
N8001	36.5	40.8	38.9	.	36.9
N8002	37.6	39.0	38.4	.	36.9
AG7934	36.1	38.2	37.8	.	36.3
G11-1614R2	.	.	.	.	.
G11PR-56151R2	36.5	39.4	37.9	.	37.0
G12-2259R2	37.6	39.5	39.5	.	37.9
G12-3107R2	35.4	39.2	37.8	.	35.6
G12-6515	36.5	37.2	37.1	.	36.2
G12-6543	37.0	39.6	37.4	.	36.7
SC09-210RR	36.8	39.2	38.4	.	36.8
SC10-394RR	36.7	39.5	39.0	.	36.9
SC10-455RR	37.9	40.5	40.1	.	37.9
Mean	36.7	39.3	38.4	.	36.8
LSD	.	.	.	.	0.7
CV	.	.	.	.	2.1

**TABLE 123 - PARENTAGE OF ENTRIES  
PRELIMINARY GROUP VIII 2016**

<i>Ent</i>	<i>Strain/Variety</i>	<i>Parentage</i>	<i>Source</i>	<i>Fn</i>	<i>Trans- genic†</i>	<i>Special Traits‡</i>
1	AGS828RR	Commercial check			RR1	
2	N8001	N7001 × Cook	Carter		Conv	Diversity
3	N8002	N7001 × Cook	Carter		Conv	
4	AG7934	Commercial check			RR1	
5	G12-6386	G00-3213(3) x [P97M50(3) x L85-2378]	Li	F5d	Conv	
6	G12-6518	G00-3213(3) x [G00-3209 x G01-PR68]	Li	F5d	Conv	
7	G13-1183R2	G93-2225 x G09PR-54329R2	Li	F5d	RR2	
8	G13-2114R2	G09PR-54457R2 x {G00-3213(4) x [G00-3209 x G01-PR68]}	Li	F5d	RR2	
9	G13-2369R2	AU02-3104 x G00-3213(3)RR2Y	Li	F6d	RR2	
10	G13-3461R2	NCC02-307 x (G3213 x RR2Y)	Li	F7d	RR2	
11	G13-3855R2	5601T x (G00-3880 x RR2Y)	Li	F7d	RR2	
12	SC10-273RR	SC98-2070/SC01-783RR	Fallen		RR1	LJ
13	SC10-302	SC98-2070/SC01-783RR	Fallen		RR1	LJ
14	SC10-309	SC98-2070/SC01-783RR	Fallen		RR1	LJ
15	SC10-399	SC98-2070/SC01-783RR	Fallen		RR1	LJ

†Conv = Conventional(non-transgenic), RR1 = Roundup Ready®, and RR2 = Roundup Ready 2 Yield®

‡SR = Soybean rust resistance, FLS = Frogeye leaf spot resistance, LJ = Long juvenile, SCN = Soybean cyst nematode resistance, and STS = sulfonylurea tolerant

**TABLE 124 - GENERAL SUMMARY OF PERFORMANCE  
PRELIMINARY TEST VIII 2016**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)†			SC RATING	SC SCORE
	YIELD	RANK					Race 2	Race 3	Race 5		
AGS828RR	33.8	10	7	0	2.0	33	4	5	4	R	1
N8001	35.3	8	6	0	2.1	35	4	5	5	MS	4
N8002	35.6	5	6	2	2.1	31	5	5	5	SS	3
AG7934	35.5	6	6	1	1.7	33	3	.	2	MR	2
G12-6386	35.6	4	6	-1	1.4	29	4	.	4	R	1
G12-6518	35.3	7	7	1	2.0	34	4	1	4	MS	4
G13-1183R2	34.3	9	8	0	2.2	35	2	.	5	R	1
G13-2114R2	37.5	1	5	0	1.4	32	3	4	5	SS	3
G13-2369R2	36.4	2	6	1	1.8	35	3	2	4	SS	3
G13-3461R2	36.3	3	6	0	1.4	35	1	1	2	SS	3
G13-3855R2	33.3	11	8	-1	1.9	37	3	.	4	S	5
SC10-273RR	30.3	13	12	4	1.6	37	5	4	5	MR	2
SC10-302	28.5	14	13	3	1.6	37	4	3	4	MS	4
SC10-309	26.4	15	15	3	1.3	35	5	4	5	MS	4
SC10-399	33.0	12	10	2	1.4	36	4	1	5	MS	4
Mean	33.8	.	.	1	1.7	34	.	.	.	.	.
LSD(0.05)	5.7	.	.	4	.	3	.	.	.	.	.
CV(%)	15.2	.	.	253	.	8	.	.	.	.	.

†The race 2, 3, and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*) Type 1.2.5.7, HG Type 5.7, and HG Type 2.5.7, respectively.

‡Protein percentage and oil percentage are reported on a 13% moisture basis beginning in 2015.



**TABLE 124 - GENERAL SUMMARY OF PERFORMANCE (continued)**  
**PRELIMINARY TEST VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>SEED QUALITY</b>	<b>SEED SIZE</b>	<b>% PROTEIN‡</b>	<b>% OIL‡</b>	<b>FL COLOR</b>	<b>PUB. COLOR</b>	<b>POD COLOR</b>
AGS828RR	1.4	12.4	37.5	17.8	.	.	.
N8001	1.4	13.8	37.3	17.5	.	.	.
N8002	1.3	12.5	37.5	17.6	.	.	.
AG7934	1.7	13.9	36.5	19.2	.	.	.
G12-6386	1.4	15.0	36.6	19.5	W	T	T
G12-6518	1.4	14.3	36.4	19.2	W	T	T
G13-1183R2	1.5	12.7	36.5	17.3	W	T	T
G13-2114R2	1.3	15.5	36.3	18.6	P	T	T
G13-2369R2	1.5	13.5	36.2	18.8	W	T	T
G13-3461R2	1.4	13.5	35.5	18.9	P	T	T
G13-3855R2	1.5	13.3	36.4	19.3	W	T	T
SC10-273RR	1.6	14.2	36.6	18.9	P	G	.
SC10-302	1.8	12.6	37.0	18.0	P	G	.
SC10-309	1.7	12.2	36.8	18.1	P	G	.
SC10-399	1.5	13.3	36.8	18.1	P	G	.
Mean	1.5	13.5	36.7	18.4	.	.	.
LSD(0.05)	0.4	0.8	0.7	0.5	.	.	.
CV(%)	24.0	5.7	1.7	2.4	.	.	.

**TABLE 125 - SEED YIELD (BUSHEL PER ACRE)  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A) ‡</b>	<b>Test Mean</b>
AGS828RR	42.7	33.1	17.7	34.6	41.0	30.5	33.8
N8001	46.9	29.7	32.0	32.8	35.0	19.0	35.3
N8002	49.1	30.8	35.7	30.5	31.7	13.5	35.6
AG7934	45.1	30.7	21.8	40.6	39.5	32.4	35.5
G12-6386	48.7	29.8	14.2	36.0	49.2	39.2	35.6
G12-6518	44.9	31.7	29.8	32.5	37.6	37.3	35.3
G13-1183R2	44.8	31.5	21.2	31.9	42.2	36.7	34.3
G13-2114R2	42.1	34.5	29.0	33.9	47.9	36.2	37.5
G13-2369R2	45.1	30.1	30.4	32.0	44.3	36.3	36.4
G13-3461R2	46.0	30.4	26.3	33.9	44.1	37.4	36.3
G13-3855R2	46.0	28.8	14.2	32.9	44.5	37.7	33.3
SC10-273RR	41.9	29.5	19.3	28.4	32.4	18.4	30.3
SC10-302	38.6	28.3	16.7	30.5	28.3	12.9	28.5
SC10-309	39.7	26.6	13.4	26.0	26.5	3.4	26.4
SC10-399	42.0	29.0	30.4	30.5	33.4	33.4	33.0
Mean	44.2	30.3	23.5	32.5	38.5	28.3	33.8
LSD(0.05)	4.5	6.0	4.8	6.0	4.5	8.3	5.7
CV(%)	6.1	11.1	12.2	11.0	7.0	17.5	15.2

‡ Data not included in test mean due to CV > 15%.

**TABLE 126 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)  
UNIFORM GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	10/26	11/3	11/5	10/27	.	10/15	10/28
N8001	0	0	-2	4	.	-2	0
N8002	1	4	-1	4	.	3	2
AG7934	-4	1	5	4	.	1	1
G12-6386	-4	-1	-1	-1	.	3	-1
G12-6518	-3	2	0	4	.	4	1
G13-1183R2	-4	1	-2	2	.	3	0
G13-2114R2	-4	-2	1	2	.	5	0
G13-2369R2	-3	1	2	4	.	4	1
G13-3461R2	-3	-2	3	3	.	-1	0
G13-3855R2	-4	-3	2	-1	.	2	-1
SC10-273RR	-3	7	5	5	.	7	4
SC10-302	-2	11	3	6	.	0	3
SC10-309	-2	11	4	8	.	-5	3
SC10-399	-5	10	1	4	.	3	2
Mean	-3	3	1	3	.	2	1
LSD(0.05)	1	3	1	3	.	5	4
CV(%)	-27	44	56	47	.	156	253

**TABLE 127 - PLANT HEIGHT (INCHES)  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	39	25	27	35	38	36	33
N8001	41	26	27	37	42	37	35
N8002	37	24	25	31	39	31	31
AG7934	39	26	26	40	35	36	33
G12-6386	35	24	21	28	37	31	29
G12-6518	41	23	26	32	43	36	34
G13-1183R2	40	25	28	37	40	39	35
G13-2114R2	35	26	26	39	35	34	32
G13-2369R2	42	24	27	37	40	38	35
G13-3461R2	40	24	28	38	41	39	35
G13-3855R2	46	27	27	35	42	40	37
SC10-273RR	42	26	28	39	45	38	37
SC10-302	42	32	31	33	46	37	37
SC10-309	41	30	26	32	44	34	35
SC10-399	40	27	30	37	45	37	36
Mean	40	26	27	35	41	36	34
LSD(0.05)	3	.	4	.	3	4	3
CV(%)	5	.	9	.	4	7	8

**TABLE 128 - PLANT LODGING (1-5)  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	1.3	1.5	2.7	2.3	1.7	2.3	2.0
N8001	2.0	2.0	2.0	2.0	2.7	1.7	2.1
N8002	2.3	2.0	2.3	2.5	2.0	1.7	2.1
AG7934	1.3	1.8	1.7	2.3	1.3	1.7	1.7
G12-6386	1.0	1.5	2.3	1.8	1.0	1.0	1.4
G12-6518	2.0	1.8	3.0	2.0	1.3	1.7	2.0
G13-1183R2	1.7	1.8	3.0	2.0	2.0	2.7	2.2
G13-2114R2	1.0	1.8	1.7	2.3	1.0	1.0	1.4
G13-2369R2	1.7	1.5	2.3	2.5	1.0	1.7	1.8
G13-3461R2	1.0	1.5	2.0	2.0	1.0	1.0	1.4
G13-3855R2	1.7	1.8	2.7	2.0	1.3	1.7	1.9
SC10-273RR	1.3	2.2	2.0	2.0	1.3	1.0	1.6
SC10-302	1.0	2.0	2.0	2.0	1.7	1.0	1.6
SC10-309	1.0	1.3	1.7	2.0	1.0	1.0	1.3
SC10-399	1.0	1.8	2.0	1.5	1.0	1.3	1.4
Mean	1.4	1.7	2.2	2.1	1.4	1.5	1.7
LSD(0.05)	0.7	0.6	0.7	0.3	0.6	1.1	0.4
CV(%)	27.7	15.2	18.3	7.8	26.9	45.1	27.9

**TABLE 129 - SEED QUALITY (1-5)  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	1.2	.	2.3	.	1.0	1.0	1.4
N8001	1.3	.	2.0	.	1.3	1.0	1.4
N8002	1.2	.	1.3	.	1.8	1.0	1.3
AG7934	1.7	.	2.3	.	1.8	1.0	1.7
G12-6386	1.3	.	2.3	.	1.0	1.0	1.4
G12-6518	1.2	.	2.3	.	1.2	1.0	1.4
G13-1183R2	1.2	.	2.7	.	1.3	1.0	1.5
G13-2114R2	1.2	.	2.0	.	1.0	1.0	1.3
G13-2369R2	1.3	.	2.3	.	1.2	1.0	1.5
G13-3461R2	1.5	.	1.7	.	1.3	1.0	1.4
G13-3855R2	1.5	.	2.3	.	1.3	1.0	1.5
SC10-273RR	1.5	.	2.7	.	1.3	1.0	1.6
SC10-302	1.8	.	2.3	.	1.8	1.0	1.8
SC10-309	1.3	.	2.7	.	1.7	1.0	1.7
SC10-399	1.3	.	2.0	.	1.5	1.0	1.5
Mean	1.4	.	2.2	.	1.4	1.0	1.5
LSD(0.05)	0.4	.	0.9	.	0.4	.	0.4
CV(%)	18.9	.	23.2	.	17.9	0.0	24.0

**TABLE 130 - SEED SIZE (GRAMS PER 100 SEED)  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	13.6	13.9	15.3	13.0	10.0	9.1	12.4
N8001	16.4	16.0	15.9	13.4	11.5	9.7	13.8
N8002	13.7	14.6	14.8	12.1	10.1	9.7	12.5
AG7934	15.3	16.5	17.2	14.7	10.2	9.8	13.9
G12-6386	16.9	17.2	17.9	13.7	12.0	12.2	15.0
G12-6518	15.3	16.8	17.7	12.5	10.8	12.4	14.3
G13-1183R2	14.4	13.7	15.8	12.0	10.1	10.2	12.7
G13-2114R2	16.5	18.2	17.9	15.1	12.7	12.7	15.5
G13-2369R2	16.1	15.0	14.8	13.0	10.8	11.0	13.5
G13-3461R2	15.5	15.8	15.2	13.9	10.2	10.5	13.5
G13-3855R2	14.6	16.3	14.7	13.2	11.1	10.2	13.3
SC10-273RR	16.4	16.5	17.7	13.4	11.2	9.8	14.2
SC10-302	13.5	14.8	15.8	11.9	9.3	10.3	12.6
SC10-309	14.3	14.0	14.5	11.3	9.4	9.7	12.2
SC10-399	15.2	15.7	16.5	12.7	10.1	9.4	13.3
Mean	15.2	15.7	16.1	13.1	10.6	10.5	13.5
LSD(0.05)	0.9	2.2	0.3	.	0.6	0.5	0.8
CV(%)	3.4	6.3	0.9	.	3.5	3.0	5.7

**TABLE 131 - OIL (%)†**  
**PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	18.1	18.1	17.1	18.2	18.2	17.1	17.8
N8001	18.5	17.8	16.9	17.5	17.8	16.2	17.5
N8002	17.9	18.0	17.8	18.0	16.7	16.9	17.6
AG7934	20.0	19.8	18.6	19.2	18.6	18.9	19.2
G12-6386	19.8	19.6	18.4	19.5	19.6	19.8	19.5
G12-6518	19.5	19.6	18.6	19.0	18.4	20.2	19.2
G13-1183R2	17.5	17.7	16.5	17.9	17.1	17.1	17.3
G13-2114R2	18.8	18.5	18.0	18.7	18.8	18.5	18.6
G13-2369R2	18.8	19.0	18.4	19.3	18.8	18.7	18.8
G13-3461R2	19.6	18.2	18.4	19.3	18.7	19.3	18.9
G13-3855R2	19.2	19.6	18.5	19.4	19.4	19.5	19.3
SC10-273RR	19.7	19.1	18.2	19.7	18.5	18.2	18.9
SC10-302	18.7	18.3	17.5	19.0	17.5	17.2	18.0
SC10-309	18.5	18.6	17.2	19.0	17.1	18.4	18.1
SC10-399	18.7	18.2	17.6	18.9	17.1	18.0	18.1
Mean	18.9	18.7	17.8	18.8	18.2	18.3	18.4
LSD	.	.	.	.	.	.	0.5
CV	.	.	.	.	.	.	2.4

†Oil percentage is reported on a 13% moisture basis beginning in 2015.



**TABLE 132 - PROTEIN (%)†  
PRELIMINARY GROUP VIII 2016**

<b>STRAIN/ VARIETY</b>	<b>Athens, GA(A)</b>	<b>Clayton, NC</b>	<b>Florence, SC</b>	<b>Kinston, NC</b>	<b>Plains, GA</b>	<b>Tallassee, AL(A)</b>	<b>Test Mean</b>
AGS828RR	38.4	35.9	38.1	37.2	36.3	39.3	37.5
N8001	37.4	35.3	37.2	36.9	36.5	40.3	37.3
N8002	37.8	37.0	36.5	36.6	38.0	39.0	37.5
AG7934	36.8	34.6	37.1	37.0	36.1	37.5	36.5
G12-6386	37.3	34.8	37.5	35.5	36.7	37.7	36.6
G12-6518	37.0	33.5	36.3	36.9	37.5	37.1	36.4
G13-1183R2	38.1	33.6	37.5	35.1	36.1	38.4	36.5
G13-2114R2	37.3	34.4	36.3	36.1	35.6	37.9	36.3
G13-2369R2	37.5	34.3	36.2	35.2	36.4	37.8	36.2
G13-3461R2	35.9	34.2	36.1	35.4	35.2	36.2	35.5
G13-3855R2	37.4	35.0	36.7	36.0	35.9	37.3	36.4
SC10-273RR	36.8	35.2	36.9	35.8	36.9	38.2	36.6
SC10-302	37.4	35.9	36.5	35.7	37.4	39.0	37.0
SC10-309	37.7	34.8	37.2	35.5	37.8	37.8	36.8
SC10-399	37.4	35.3	37.2	35.4	36.9	38.4	36.8
Mean	37.3	34.9	36.9	36.0	36.6	38.1	36.7
LSD	.	.	.	.	.	.	0.7
CV	.	.	.	.	.	.	1.7

†Protein percentage is reported on a 13% moisture basis beginning in 2015.

The End - See you next year!