

UNIFORM SOYBEAN TESTS

SOUTHERN STATES

2015

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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, AG4632RR2Y, LD06-7620, AG3934(RR2), AG4835(RR2), Ellis, AG4933(RR2), Osage, JTN-5203, UA5612, AG5332RR2Y, AG5534(RR2), AG5335(RR2), NC-Roy, NCC06-1090, AG6534, NCC07-8138, AGS738RR, AG7733, N7003CN, NCC06-899, AGS828RR, AG7934, N05-7432, 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
DB	-	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
LG	-	Delta Branch Experiment Station and USDA-ARS, Stoneville, MS
MD	-	Maryland Agricultural Experiment Station – one MD line submitted in 2015 by Virginia Agricultural Experiment Station, Virginia Tech
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
RN	-	Delta Branch Experiment Station and USDA-ARS, Stoneville, MS
S	-	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
V	-	Virginia Agricultural Experiment Station, Virginia Tech

SOYBEAN NURSERY INFORMATION

A. LOCATION CONTACT AND TESTS- 2015

2015 Locations	Location Contact	Area	IV-S-E	IV-S-L	IV-S	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	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 Gasset	South							U		U		
Plains,GA	Zenglu Li	South								P	U	P	U
Tifton,GA	John Gasset	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						
Portageville,MO(B)	Grover Shannon	Delta	P	P	U	P	U						
Columbia,MO	Andrew Scaboo	Delta	P										
Starkville,MS	Brad Burgess	South			U		U						
Stoneville,MS	Gary Shelton	Delta	P	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	Tommy Carter	East					U	P		P	U		
Blackville,SC	Ben Fallen	South									U	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 R. Pantalone	South	P	P	U	P	U						
Springfield,TN	Vincent R. 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			U		U						
TOTAL LOCATIONS PLANTED			10	9	16	9	18	7	13	6	14	7	12
TOTAL LOCATIONS REPORTING DATA			9	8	13	8	15	6	11	5	12	5	11

B. PLANTING DATES – 2015

2015 PLANTING DATES	PIV-S-E	PIV-S-L	PV	PVI	PVII	PVIII	UIV-S	UV	UVI	UVII	UVIII
Belle Mina,AL								6/5	6/5		
Fairhope,AL									6/5	6/15	6/15
Tallassee,AL(A)				6/15	6/15	6/15			6/15	6/15	6/15
Tallassee,AL(B)											7/7
Keiser,AR	5/7	5/7	5/7	5/7			5/7	5/7	5/7		
Stuttgart,AR	ND	ND	ND	ND			ND	ND	ND		
Athens,GA(A)					5/20	5/20			5/20	5/20	5/20
Athens,GA(B)										6/24	6/24
Calhoun,GA									6/8	6/8	
Plains,GA					6/5	6/5				6/4	6/4
Tifton,GA									5/21	5/21	5/21
Carbondale,IL	5/21	5/21					5/21				
McCune,KS		6/24	6/24				6/24	6/24			
Pittsburg,KS		6/29	6/29				6/29	6/29			
Bossier City,LA							5/7	5/7	5/7	6/8	
Portageville,MO(A)							5/4	5/4			
Portageville,MO(B)	6/5	6/11	6/11				6/11	6/11			
Columbia,MO	5/6										
Starkville,MS							ND	ND			
Stoneville,MS	4/29	4/29	4/29	4/29			4/29	4/29	4/29		
Clayton,NC						5/29				5/29	5/29
Kinston,NC			6/20	6/20	6/16	6/16			6/20	6/16	6/16
Plymouth,NC				5/13	5/13			5/7		ND	
Blackville,SC						ND				6/25	ND
Clemson,SC				6/8					6/8	6/25	6/25
Florence,SC					5/14	6/16			5/14	5/14	6/16
Jackson,TN	6/11	6/11	6/11				6/11	6/11			
Knoxville,TN	5/6	5/6	5/6				5/6	5/6			
Springfield,TN	5/21						5/21	5/21			
Orange,VA	5/13						5/13	5/13			
Suffolk,VA								5/13			
Warsaw,VA							5/25	5/25			

ND = No dates reported

C. HARVEST DATES – 2015

2015 HARVEST DATES	PIV-S-E	PIV-S-L	PV	PVI	PVII	PVIII	UIV-S	UV	UVI	UVII	UVIII
Belle Mina,AL								10/20	11/11		
Fairhope,AL									11/16	11/16	11/16
Tallassee,AL(A)				11/23	11/23	11/24			11/23	11/23	11/24
Tallassee,AL(B)											11/23
Keiser,AR	10/8	10/8	10/12	10/12			10/8	10/12	10/12		
Stuttgart,AR	NH	NH	NH	NH			NH	NH	NH		
Athens,GA(A)					11/23	11/23			10/20	11/24	11/24
Athens,GA(B)										11/28	11/28
Calhoun,GA									11/27	11/27	
Plains,GA					11/16	11/16				11/17	11/17
Tifton,GA									10/20	11/6	11/6
Carbondale,IL	10/14	10/14					10/14				
McCune,KS		11/2	11/2				11/2	11/2			
Pittsburg,KS		11/4	11/4				11/4	11/4			
Bossier City,LA							10/6	10/6	10/13	10/22	
Portageville,MO(A)							10/14	10/14			
Portageville,MO(B)	10/12	10/22	10/22				10/22	10/22			
Columbia,MO	10/1										
Starkville,MS							NH	NH			
Stoneville,MS	9/16	9/25	9/28	10/13			9/25	9/28	10/13		
Clayton,NC						11/28				11/28	11/28
Kinston,NC			11/16	11/20	11/28	11/22			11/22	12/5	12/1
Plymouth,NC				12/9	12/15			10/21		ND	
Blackville,SC						NH				12/10	NH
Clemson,SC				11/16					11/16	11/25	11/25
Florence,SC					NH	NH			NH	NH	11/17
Jackson,TN	10/8	10/15	11/5				10/15	11/5			
Knoxville,TN	10/5	10/5	10/19				10/6	10/19			
Springfield,TN	10/6						10/6	10/20			
Orange,VA	10/20						10/20	10/26			
Suffolk,VA								11/16			
Warsaw,VA							10/22	10/22			
Location Notes											
Stuttgart,AR	Location not harvested due to excessive rains.										
Portageville,MO(B)	Erratic stands.										
Starkville,MS	Location not harvested due to poor stands after planting.										
Blackville,SC	Tests not harvested due to excessive rains.										
Florence,SC	Tests not harvested due to excessive rains.										
Jackson,TN	Only PIVS-E was irrigated.										
Orange,VA	Frost damage on group V.										

NH= Not harvested

D. AGRONOMIC CHARACTERISTICS OF LOCATIONS – 2015

2015 Location	SOIL TYPE	Row Spacing	Planted Length	Harvested Length	Trial Bordered	End Trimmed	# Rows Planted	# Rows Harvested	Prior Crop	Irrigated
Belle Mina,AL	Decatur silt loam	30	20	15	No	Yes	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	30	16	12	Yes	Yes	4	2	Fallow	No
Tallassee,AL(B)	Cahaba fine sandy loam	30	16	12	Yes	Yes	2	2	Fallow	No
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	Rome gravelly clay loam	30	25	16	Yes	Yes	4	2	Corn	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	No	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	Corn	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
Blackville,SC	Grady Fine Sandy Loam	38	20	18	Yes	Yes	4	2	Soybeans	Yes
Clemson,SC	Cartecay fine sandy loam	30	30	22	Yes	Yes	4	2	Soybean	No
Florence,SC	Sandy Loam	30	25	18	Yes	Yes	4	2	Corn/Sorghum	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	Yes
Springfield,TN	Dickson 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	http://www.aragriculture.org/weather/default.asp	
Georgetown, DE	http://www.rec.udel.edu/TopLevel/Weather.htm	
Athens, GA (A)	http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP	
Athens, GA (B)	http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAWP	
Calhoun, GA	http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GACA	
Plains, GA	http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GAPL	
Tifton, GA	http://www.griffin.uga.edu/aemn/cgi-bin/AEMN.pl?site=GATI	
Ullin, IL	none	
McCune, KS	http://www.oznet.ksu.edu/wdl/	
Pittsburg, KS	http://www.oznet.ksu.edu/wdl/	
Princeton, KY	http://www.nass.usda.gov/Statistics_by_State/Kentucky/Publications/AgriNews/oct226.pdf	
Alexandria, LA	www.lsuagcenter.com/weather	
Bossier City, LA	www.lsuagcenter.com/weather/tabledata.asp	
Queenstown, MD	none	
Portageville, MO(A)	http://agebb.missouri.edu/weather/realtime/portageville.asp	
Portageville, MO(B)	http://agebb.missouri.edu/weather/realtime/portageville.asp	
Starkville, MS	http://www.deltaweather.msstate.edu/	
Stoneville, MS	http://www.deltaweather.msstate.edu/	Stoneville is at the end of the list of weather stations.
Jackson Springs, NC	http://www.nc-climate.ncsu.edu/cronos/index.php?station=JACK&temporal=daily	Sandhills Station, NC (Jackson Springs)
Kinston, NC	http://www.nc-climate.ncsu.edu/cronos/index.php?station=314689&temporal=D	Kinston, NC
Plymouth, NC(A)	http://www.nc-climate.ncsu.edu/cronos/?station=PLYM	Tidewater Research Station
Plymouth, NC(B)	http://www.nc-climate.ncsu.edu/cronos/?station=PLYM	Tidewater Research Station
Bixby, OK	www.mesonet.ou.edu	
Stillwater, OK	www.mesonet.ou.edu	
Blackville, SC(A)	http://www.ncdc.noaa.gov/crn/	
Blackville, SC(B)	http://www.ncdc.noaa.gov/crn/	
Clemson, SC	http://www.wunderground.com/weatherstation/WXDailyHistory.asp?ID=KSCCLEMS1&graphspan=month&month=6&day=1&year=2007	
Florence, SC	not reported	
Jackson, TN	None on the web	
Knoxville, TN	www.ncdc.noaa.gov	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	http://www.accuweather.com/forecast-climo.asp?partner=30371&traveler=0&zipChg=1&zipcode=23841&metric=0	This only has the past two months of data
Suffolk, VA	not reported	
Warsaw, VA	http://www.ext.vt.edu/cgi-bin/WebObjects/Mesonet.woa/wa/lookupCoordinate?472,102	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 in a plot was measured as the average length of plants in inches from the ground to the top extremity at maturity.

Lodging. Lodging 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 - Ellis; PIV-S (E) - AG 4232; 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 or 2015 due to personnel changes.

Root-knot Nematode. Screenings of strains of UIV-S - UVIII 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). Evaluations of soybean entries in the Uniform Soybean Tests, Southern States for reaction to SCN (*Heterodera glycines*) were conducted in greenhouse tests at USDA-ARS, Jackson, TN in 2015. All soybean entries were evaluated against three SCN populations, designated races 2, 3, and 5 in the data

tables. The race 2, 3, and 5 SCN populations were typed as HG (*H. glycines*) Type 1.2.5.7, HG Type 7, and HG Type 2.5.7, respectively. (See HG typing characterizations in next paragraph.) One seed of each soybean entry (UIVS-UVIII and PIVS-PVIII) was planted in a 7.6 cm diameter clay pot filled with a pasteurized 3 sand : 1 soil mix. There were 7 pots per soybean entry/SCN population combination. At planting, the soil in each pot was infested with 2,500 eggs of the respective SCN population. Approximately four weeks after planting, each root system was evaluated using the following rating scale: 1 = 0-5 cysts per root system, 2 = 6-10 cysts per root system, 3 = 11-20 cysts per root system, 4 = 21-40 cysts per root system, and 5 = greater than 40 cysts per root system. The ratings of the 7 plants were averaged. The data were not shown for a soybean entry if there were fewer than 3 plants for the rating. The mean rating for each soybean entry = $\sum(\text{each rating category number} \times \text{number of plants receiving rating in that category}) / \text{total number of plants rated}$.

HG typing of SCN populations used in Uniform Soybean Tests, Southern States, 2015. The standard susceptible (S) check used in these tests was 5601T. The standard indicator lines PI 548402, PI 88788, PI 90763, PI 437654, PI 209332, PI 89772, and PI 548316, were included in every test to confirm characterization of the HG type of each SCN population. Female index (FI) = (mean number of females on a soybean indicator line) / (mean number of females on the standard susceptible) x 100. In the current tests, FI = percentage females on 5601T. **Race 2 population.** 5601T (S) had an average of 175 cysts. The female indices (FI) were: PI 548402 = 30%, PI 88788 >100%, PI 90763 = 0%, PI 437654 = 0%, PI 209332 >100%, PI 89772 = 1%, and PI 548316 = 23%. **Race 3 population.** 5601T (S) had an average of 189 cysts. The FI were: PI 548402 = 1%, PI 88788 = 4%, PI 90763 = 0%, PI 437654 = 0%, PI 209332 = 5%, PI 89772 = 0%, and PI 548316 = 12%. **Race 5 population.** 5601T (S) had an average of 211 cysts. The FI were: PI 548402 = 8%, PI 88788 = 54%, PI 90763 <1%, PI 437654 <1%, PI 209332 = 71%, PI 89772 <1%, and PI 548316 = 70%.

Stem Canker. Strains from all tests were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi for their reaction to *Diaporthe phaseolorum* var *meridionalis*, 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 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 given based on a comparison of the final score with the disease level of the checks. Lines 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 AG5504, and resistant checks Ellis and UA5612 were 5, 5, 1 and 1, respectively.

Sudden Death Syndrome (SDS). SDS was evaluated for UIV-S and UV at Valmeyer, Illinois 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 $(DI \times DS) / 9$. DX is reported.

The DX for UIV-S susceptible check Spencer and the resistant check Ripley, respectively, were 56 and 20. The DX for the UV susceptible check Camp and the resistant check LS90-1920, respectively, were 78 and 8.

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 rep of data was provided for variables other than yield, the actual values for that rep 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 rep(location) location*variety; as random effects. Coefficient of variation (CV) and LSD ($\alpha = 0.05$) were calculated from the Proc Mixed output. 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 rep(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 at the location. Size data is collected either for all replications, or as a composite sample, so arithmetic means or composite sample NIR results are presented. 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.

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TABLE 1 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	F_n	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	Ellis	Commercial check		Conv	
2	AG 4632RR2Y	Commercial check		RR2	
3	AG 4835	Commercial check		RR2	
4	AG 4933RR2	Commercial check		RR2	
5	AG 3934RR2	Commercial check		RR2	
6	DA09x003-27-76F	DB01-5289 x DA08x27		Conv	Low linolenic acid
7	DB06x038-70	DT98-9102 x PI594172		Conv	Diversity
8	DS03-14	LG99-5106 x LG97-9226	F6	Conv	Exotic
9	DS13-141	PI 547878 x GC00138-29	F5	Conv	SR
10	R09-1589	5002T x R01-4752	F5	Conv	
11	R09-5026	S00-9925-10 x UA 4805	F5	Conv	
12	R10-28	5002T x Ozark	F5	Conv	
13	R11-89RY	Osage x RR2Y	F4	RR2	
14	R12-226	5002T x R04-846	F5	Conv	
15	S11-20337	S05-11482 x S06-3095RR	F5	RR1	
16	S11-20345	S05-11482 x S06-3095RR	F5	RR1	
17	S12-3777	LD06-7596 x S07-5117	F5	Conv	Diversity, SCN
18	S12-3782	LD06-7596 x S07-5117	F5	Conv	Diversity, SCN
19	S12-3791	LD06-7596 x S07-5117	F5	Conv	Diversity, SCN
20	TN11-4510	TN02-226 x MON RR2Y		RR2	
21	TN13-4508R2	TN02-226 x MON RR2Y		RR2	
22	TN13-4710R2	5002T x 09-46665		RR2	
23	TN13-5741R2	TN02-226 x MON RR2Y		RR2	
24	V09-0610	V98-2711 x DP 3519s	F4	Conv	STS
25	V11-2149	LG04-6000 x V03-7833	F4	Conv	
26	V11-2263	LG04-6000 x V03-7833	F4	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 2 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST IV-S FOR YEAR 2015**

STRAIN/ VARIETY	AVERAGE		YIELD [†]			PROTEIN [‡]			OIL [‡]		
	RANK	RANK	2015	14-15	13-15	2015	14-15	13-15	2015	14-15	13-15
Ellis	8	10	61.3	60.3	.	35.1	34.8	.	18.6	18.8	.
AG 4632RR2Y	5	10	61.6	60.3	61.2	34.2	34.3	34.4	19.5	19.6	19.6
AG 4835	1	6	65.3	.	.	35.2	.	.	18.6	.	.
AG 4933RR2	2	7	63.7	61.7	.	36.0	35.9	.	18.9	19.0	.
AG 3934RR2	25	21	50.1	45.3	.	36.4	36.5	.	19.4	19.4	.
DA09x003-27-76F	18	16	57.5	.	.	34.8	.	.	19.4	.	.
DB06x038-70	17	16	57.5	.	.	34.2	.	.	20.0	.	.
DS03-14	24	22	51.4	.	.	34.8	.	.	20.4	.	.
DS13-141	26	23	44.2	.	.	37.1	.	.	18.4	.	.
R09-1589	13	12	59.0	58.5	58.7	34.4	34.1	34.1	19.3	19.4	19.4
R09-5026	19	14	57.1	.	.	35.5	.	.	18.8	.	.
R10-28	15	14	58.4	58.2	.	35.6	35.3	.	19.5	19.7	.
R11-89RY	21	16	56.4	57.2	.	36.7	36.7	.	19.0	19.1	.
R12-226	10	12	60.8	.	.	35.2	.	.	19.0	.	.
S11-20337	3	9	62.9	.	.	35.7	.	.	18.9	.	.
S11-20345	12	12	60.3	59.7	.	35.6	35.2	.	18.8	19.2	.
S12-3777	9	12	61.0	.	.	34.6	.	.	19.3	.	.
S12-3782	4	9	62.6	.	.	36.5	.	.	19.3	.	.
S12-3791	7	11	61.6	.	.	35.3	.	.	18.9	.	.
TN11-4510	6	9	61.6	59.3	.	34.8	34.3	.	19.0	19.3	.
TN13-4508R2	11	12	60.7	.	.	34.0	.	.	18.9	.	.
TN13-4710R2	22	17	55.2	.	.	35.0	.	.	19.5	.	.
TN13-5741R2	16	14	57.9	.	.	35.6	.	.	18.4	.	.
V09-0610	14	14	58.8	.	.	36.6	.	.	19.2	.	.
V11-2149	23	17	54.4	.	.	35.2	.	.	19.5	.	.
V11-2263	20	17	56.9	.	.	36.1	.	.	20.0	.	.
Mean	.	.	58.4	.	.	35.4	.	.	19.2	.	.
LSD(0.05)	.	.	5.2	.	.	0.5	.	.	0.3	.	.
CV(%)	.	.	13.4	.	.	1.6	.	.	2.0	.	.

†Data not included in mean: 2015 – Orange, VA; Springfield, TN
2014 – Carbondale, IL; Orange, VA
2013 – Orange, VA; Springfield, TN

‡Protein percentage and oil percentage data from 2013 and 2014 were converted from dry weight basis to a 13% moisture basis using a 0.87 conversion factor in order to calculate the multi-year averages.

**TABLE 3 - GENERAL SUMMARY OF BOTANICAL TRAITS FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST IV-S FOR YEAR 2015**

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
Ellis	0	1.4	27	1.8	12.1	W	G	T
AG 4632RR2Y	-4	1.8	36	2.1	14.3	P	G	Br
AG 4835	0	1.8	38	1.7	12.4	P	G	Br
AG 4933RR2	-2	1.8	39	1.9	14.3	P	G	Br
AG 3934RR2	-16	1.7	31	2.4	15.5	P	G	Br
DA09x003-27-76F	0	1.8	31	2.0	13.1	W	T	T
DB06x038-70	-4	2.1	32	1.9	14.8	W	G	T
DS03-14	-15	2.4	35	2.4	13.4	P	T	Br
DS13-141	-13	2.0	39	2.3	14.5	P	T	Br
R09-1589	2	1.8	31	1.9	14.6	P	T	T
R09-5026	1	1.5	29	2.0	13.0	P	G	T
R10-28	1	1.8	30	2.0	14.5	P	G	T
R11-89RY	1	1.3	29	1.8	13.8	P	G	T
R12-226	1	2.3	30	1.9	13.2	W	G	T
S11-20337	-2	2.2	33	1.9	12.4	P	T	T
S11-20345	-4	2.0	31	1.9	12.7	W	T	T
S12-3777	-5	2.4	37	2.0	12.9	P	G	T
S12-3782	-5	2.3	37	2.2	16.4	W	G	T
S12-3791	-7	1.8	33	2.2	14.1	W	G	T
TN11-4510	0	1.6	29	2.2	13.8	P	Lt	T
TN13-4508R2	-2	1.9	38	2.0	12.3	P	Lt	T
TN13-4710R2	-1	1.8	28	2.0	13.5	P	Lt	T
TN13-5741R2	-2	1.5	27	2.1	13.9	P	Lt	T
V09-0610	-1	1.8	31	2.1	14.9	P	T	T
V11-2149	-12	1.5	32	2.6	13.5	P	Lt	T
V11-2263	-10	1.5	32	2.4	14.3	W	T	T
Mean	-4	1.8	32	2.1	13.8			
LSD(0.05)	3	0.3	2	0.3	0.8			
CV(%)	78	32.0	12	24.0	7.5			

TABLE 4 - GENERAL SUMMARY OF PEST REACTION FOR STRAIN/VARIETY GROWN IN UNIFORM TEST IV-S FOR YEAR 2015

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK GA	SRK GA	SC RATING	SC SCORE	SDS DX
	Race 2	Race 3	Race 5					
Ellis	5	5	5	.	1.3	R	1.0	25
AG 4632RR2Y	4	4	4	.	5.0	MR	2.0	36
AG 4835	4	3	5	.	5.0	R	1.0	4
AG 4933RR2	3	4	5	.	5.0	R	1.0	33
AG 3934RR2	4	4	5	.	5.0	MR	2.0	15
DA09x003-27-76F	5	5	4	.	2.8	R	1.0	28
DB06x038-70	5	4	4	.	4.8	S	5.0	24
DS03-14	5	5	5	.	5.0	R	1.0	22
DS13-141	5	4	5	.	5.0	R	1.0	8
R09-1589	5	4	5	.	4.3	MS	4.0	28
R09-5026	4	4	4	.	2.8	SS	3.0	14
R10-28	5	4	3	.	5.0	R	1.0	8
R11-89RY	4	3	4	.	5.0	R	1.0	22
R12-226	5	3	4	.	4.3	R	1.0	11
S11-20337	1	1	1	.	1.0	MS	4.0	31
S11-20345	1	1	1	.	4.8	SS	3.0	25
S12-3777	4	2	4	.	4.5	MS	4.0	31
S12-3782	4	2	3	.	3.0	R	1.0	28
S12-3791	4	3	4	.	5.0	R	1.0	11
TN11-4510	5	5	4	.	5.0	MS	4.0	17
TN13-4508R2	2	1	1	.	5.0	MS	4.0	9
TN13-4710R2	2	2	2	.	2.5	S	5.0	19
TN13-5741R2	5	4	5	.	4.8	MS	4.0	36
V09-0610	4	5	5	.	4.0	R	1.0	36
V11-2149	4	5	4	.	3.3	R	1.0	15
V11-2263	5	5	5	.	2.8	R	1.0	42

†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 7, and HG Type 2.5.7, respectively.

TABLE 5 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST IV-S FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
Ellis	75.1	69.9	61.8	57.6	66.1
AG 4632RR2Y	79.5	78.2	64.5	65.8	72.0
AG 4835	78.4	76.0	72.7	73.3	75.1
AG 4933RR2	79.1	69.8	65.9	70.5	71.4
AG 3934RR2	66.6	63.7	57.7	.	62.5
DA09x003-27-76F	68.1	62.9	64.0	60.5	63.9
DB06x038-70	67.8	62.3	60.3	70.6	65.2
DS03-14	71.1	58.8	53.1	.	60.8
DS13-141	71.7	41.2	42.3	.	51.5
R09-1589	70.8	66.5	67.0	64.6	67.2
R09-5026	68.2	65.9	65.8	60.1	65.0
R10-28	64.1	69.4	61.4	66.2	65.3
R11-89RY	65.3	67.2	66.3	64.8	65.9
R12-226	73.6	69.5	63.7	80.8	71.9
S11-20337	74.9	72.5	58.1	70.6	68.9
S11-20345	69.0	64.2	54.2	64.0	62.9
S12-3777	65.8	75.3	62.2	80.2	70.9
S12-3782	78.6	75.7	64.2	75.6	73.5
S12-3791	83.3	80.1	58.0	72.3	73.4
TN11-4510	72.9	71.4	70.5	58.4	68.3
TN13-4508R2	74.7	69.9	55.3	63.2	65.8
TN13-4710R2	60.4	64.5	60.3	57.7	60.7
TN13-5741R2	71.6	72.0	57.8	66.3	66.9
V09-0610	65.2	67.8	60.9	70.5	66.1
V11-2149	79.6	68.4	61.2	.	69.5
V11-2263	75.7	67.2	58.9	.	67.1
Mean	72.0	68.1	61.1	67.3	66.8
LSD(0.05)	12.4	7.0	9.8	11.1	7.6
CV(%)	10.4	6.3	9.8	10.0	10.9

TABLE 5 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST IV-S FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
Ellis	60.2	60.2
AG 4632RR2Y	47.8	47.8
AG 4835	52.6	52.6
AG 4933RR2	54.4	54.4
AG 3934RR2	49.3	49.3
DA09x003-27-76F	51.8	51.8
DB06x038-70	46.2	46.2
DS03-14	49.0	49.0
DS13-141	34.9	34.9
R09-1589	54.9	54.9
R09-5026	49.9	49.9
R10-28	49.3	49.3
R11-89RY	47.5	47.5
R12-226	52.4	52.4
S11-20337	45.5	45.5
S11-20345	47.1	47.1
S12-3777	47.5	47.5
S12-3782	47.0	47.0
S12-3791	46.6	46.6
TN11-4510	52.4	52.4
TN13-4508R2	48.5	48.5
TN13-4710R2	52.0	52.0
TN13-5741R2	47.8	47.8
V09-0610	54.9	54.9
V11-2149	50.5	50.5
V11-2263	47.8	47.8
Mean	49.5	49.5
LSD(0.05)	5.5	.
CV(%)	6.7	.

TABLE 5 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST IV-S FOR YEAR 2015

South

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Knoxville, TN	Orange, ‡ VA	Springfield, ‡ TN	Area Mean
Ellis	83.5	54.4	73.6	32.5	36.2	70.5
AG 4632RR2Y	74.1	49.8	73.5	26.0	38.0	65.8
AG 4835	82.8	47.2	73.9	33.9	36.6	68.0
AG 4933RR2	73.7	50.5	72.1	36.5	39.6	65.5
AG 3934RR2	56.6	43.3	52.4	20.0	37.6	50.8
DA09x003-27-76F	73.7	47.4	66.2	31.5	31.1	62.5
DB06x038-70	70.8	43.9	61.6	31.6	32.3	58.8
DS03-14	59.7	44.9	54.6	23.6	30.6	53.1
DS13-141	41.1	35.7	53.6	21.7	26.3	43.5
R09-1589	70.7	53.0	54.7	35.9	33.2	59.5
R09-5026	83.9	47.8	57.6	37.5	30.0	63.1
R10-28	76.2	49.9	58.8	31.6	35.6	61.6
R11-89RY	62.4	46.9	68.5	38.7	30.6	59.3
R12-226	63.9	43.8	60.9	32.5	34.1	56.2
S11-20337	80.4	54.4	72.4	26.2	37.6	69.1
S11-20345	86.3	58.2	72.0	27.8	32.2	72.2
S12-3777	82.2	51.9	64.2	24.3	27.2	66.1
S12-3782	72.3	52.6	71.9	28.4	26.8	65.6
S12-3791	55.5	52.0	69.6	27.7	26.6	59.0
TN11-4510	77.6	49.3	76.8	31.9	32.2	67.9
TN13-4508R2	86.4	52.3	65.9	28.3	31.7	68.2
TN13-4710R2	70.5	52.8	54.0	25.8	29.2	59.1
TN13-5741R2	82.8	48.4	62.8	28.8	28.4	64.7
V09-0610	72.1	46.6	70.6	31.1	26.9	63.1
V11-2149	61.6	43.2	59.0	29.4	22.7	54.6
V11-2263	67.6	44.6	56.1	30.4	21.7	56.1
Mean	71.9	48.6	64.5	29.8	31.4	61.7
LSD(0.05)	15.9	5.9	12.2	9.2	9.5	9.8
CV(%)	13.5	7.5	11.5	18.8	18.4	13.7

‡Data not included in mean: 2015 - Orange, VA; Springfield, TN

TABLE 5 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST IV-S FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
Ellis	50.2	46.9	41.1	46.1
AG 4632RR2Y	48.9	47.0	48.8	48.2
AG 4835	57.4	50.4	53.8	53.9
AG 4933RR2	60.9	52.0	51.5	54.8
AG 3934RR2	19.1	39.5	46.1	34.9
DA09x003-27-76	50.0	46.9	40.4	45.8
DB06x038-70	55.2	52.6	41.1	49.6
DS03-14	38.9	43.6	33.1	38.5
DS13-141	32.8	48.4	33.2	38.1
R09-1589	53.5	51.3	42.3	49.1
R09-5026	37.8	50.5	41.0	43.1
R10-28	61.4	48.7	37.4	49.2
R11-89RY	43.6	51.4	36.7	43.9
R12-226	68.6	50.7	40.4	53.2
S11-20337	52.6	54.8	55.5	54.3
S11-20345	39.6	56.5	52.5	49.5
S12-3777	47.3	49.1	45.9	47.4
S12-3782	51.0	51.4	48.9	50.4
S12-3791	60.1	47.2	52.6	53.3
TN11-4510	54.8	53.3	40.3	49.5
TN13-4508R2	51.5	47.3	52.5	50.5
TN13-4710R2	37.0	46.4	51.6	45.0
TN13-5741R2	34.8	49.3	43.7	42.6
V09-0610	54.4	45.2	39.0	46.2
V11-2149	28.0	47.4	37.9	37.8
V11-2263	61.2	44.9	38.2	48.1
Mean	48.1	48.9	44.0	47.0
LSD(0.05)	11.4	5.1	4.4	12.1
CV(%)	14.4	6.3	6.1	17.6

TABLE 6 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Orange, VA	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Warsaw, VA	Test Mean
Ellis	.	18.0	19.5	17.8	18.6	18.5	18.5	18.4	19.5	18.4	18.6
AG 4632RR2Y	20.4	19.8	20.5	18.5	19.1	19.4	19.4	19.4	19.4	18.8	19.5
AG 4835	.	18.8	19.4	18.3	18.4	18.3	18.4	18.7	18.3	18.4	18.6
AG 4933RR2	19.8	18.8	19.9	18.0	18.2	18.4	18.8	19.0	18.8	19.0	18.9
AG 3934RR2	20.3	19.1	20.6	18.8	17.8	19.6	19.1	19.2	20.2	19.1	19.4
DA09x003-27-76F	19.9	19.0	20.4	18.5	19.6	19.2	19.3	18.7	20.0	19.6	19.4
DB06x038-70	20.8	19.6	20.9	19.1	19.8	19.9	20.0	18.9	20.7	19.8	20.0
DS03-14	21.2	20.0	21.2	20.1	18.9	20.1	20.2	20.0	21.5	20.7	20.4
DS13-141	19.0	18.0	19.3	17.9	18.1	18.6	18.3	18.4	18.5	18.1	18.4
R09-1589	19.5	19.0	20.0	18.0	19.1	19.3	19.0	18.8	20.4	19.7	19.3
R09-5026	19.0	18.4	19.3	17.8	18.6	18.5	18.8	18.9	19.4	18.8	18.8
R10-28	19.7	19.3	20.1	18.1	19.3	19.7	19.3	19.5	20.5	19.5	19.5
R11-89RY	.	18.6	19.7	17.6	19.6	18.9	18.6	19.5	19.6	19.1	19.1
R12-226	18.9	17.7	19.6	17.5	19.7	18.9	18.7	19.1	19.9	19.6	19.0
S11-20337	19.2	18.6	19.8	17.8	19.2	18.7	18.2	18.5	19.4	19.3	18.9
S11-20345	18.9	17.4	19.6	18.1	18.8	18.6	18.8	18.7	19.6	19.0	18.8
S12-3777	.	19.8	20.6	18.6	18.4	19.8	19.5	18.8	19.3	18.7	19.3
S12-3782	19.9	19.6	20.0	18.4	19.0	19.2	19.3	19.3	19.5	19.2	19.3
S12-3791	20.1	19.4	19.6	18.4	18.2	18.4	18.6	18.9	18.9	18.2	18.9
TN11-4510	19.4	17.9	19.6	18.0	19.6	18.8	19.0	18.8	19.9	19.0	19.0
TN13-4508R2	19.5	18.9	19.7	17.6	18.7	18.6	18.7	19.0	19.2	18.6	18.9
TN13-4710R2	19.7	19.1	20.4	18.2	19.2	19.4	19.4	19.5	20.5	19.7	19.5
TN13-5741R2	19.0	17.9	19.2	17.7	18.5	18.1	18.7	18.6	18.4	18.0	18.4
V09-0610	19.7	19.0	20.0	18.1	19.4	19.1	19.0	18.5	19.6	19.4	19.2
V11-2149	.	19.7	20.7	18.5	18.4	19.6	19.5	19.8	20.7	18.9	19.6
V11-2263	20.4	20.0	20.9	19.0	18.9	20.2	19.8	19.7	20.6	20.0	20.0
Mean	19.7	18.9	20.0	18.2	18.9	19.1	19.0	19.0	19.7	19.1	.

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

TABLE 7 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Orange, VA	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Warsaw, VA	Test Mean
Ellis	.	36.1	34.8	35.6	35.2	34.2	34.6	36.4	34.5	34.4	35.1
AG 4632RR2Y	33.7	34.6	33.3	35.0	33.6	34.0	34.2	34.8	34.4	33.9	34.2
AG 4835	.	35.6	34.8	35.7	34.5	34.8	35.1	36.3	35.8	34.5	35.3
AG 4933RR2	36.1	36.1	35.1	36.3	36.1	36.3	35.9	36.8	36.2	34.8	36.0
AG 3934RR2	36.2	37.7	35.3	35.3	37.6	35.2	36.9	37.3	36.3	36.3	36.4
DA09x003-27-76F	35.8	35.2	33.7	35.4	34.7	34.6	34.4	36.5	34.2	33.4	34.8
DB06x038-70	34.3	34.4	33.7	33.5	34.7	33.9	33.6	36.3	34.0	34.0	34.2
DS03-14	34.0	36.9	35.0	33.6	36.2	34.2	34.2	36.1	34.6	33.4	34.8
DS13-141	37.2	38.2	36.2	36.8	37.0	36.0	37.3	38.7	37.1	36.5	37.1
R09-1589	35.1	34.6	34.2	34.9	34.8	33.9	33.9	36.0	33.5	32.6	34.4
R09-5026	36.7	36.3	35.1	36.5	34.8	34.9	34.7	36.1	35.7	34.1	35.5
R10-28	35.7	36.7	35.9	36.0	35.8	35.2	35.3	35.8	34.8	34.3	35.6
R11-89RY	.	37.5	37.0	37.5	36.0	36.8	36.9	37.0	36.4	35.6	36.8
R12-226	35.7	37.1	35.0	36.2	34.2	35.1	35.1	35.9	34.5	33.0	35.2
S11-20337	36.4	35.5	35.7	35.3	35.4	35.1	36.8	36.6	35.9	34.0	35.7
S11-20345	36.6	36.8	35.2	34.6	35.9	35.0	35.6	36.2	35.5	34.3	35.6
S12-3777	.	35.1	33.8	35.4	34.6	33.6	34.2	35.8	34.8	34.2	34.6
S12-3782	36.5	37.3	35.8	36.6	36.2	36.0	36.2	37.9	36.8	35.9	36.5
S12-3791	34.8	36.2	34.5	35.4	34.8	35.3	35.5	35.9	35.1	35.0	35.3
TN11-4510	35.5	37.0	34.1	34.4	33.8	34.6	34.4	36.3	34.1	33.5	34.8
TN13-4508R2	33.9	34.5	33.4	33.6	34.8	34.4	32.9	35.1	33.9	33.7	34.0
TN13-4710R2	35.7	36.1	34.9	35.7	35.0	34.7	34.1	36.1	34.5	33.4	35.0
TN13-5741R2	36.1	36.6	34.3	36.0	35.7	34.8	35.2	36.6	35.8	34.9	35.6
V09-0610	36.5	37.0	35.6	37.0	36.3	36.3	36.3	38.4	37.2	35.2	36.6
V11-2149	.	36.3	34.3	35.3	36.1	34.2	35.1	36.5	34.8	34.6	35.3
V11-2263	36.4	38.0	35.8	36.8	36.3	35.0	35.9	36.7	35.5	35.0	36.1
Mean	35.7	36.3	34.9	35.6	35.4	34.9	35.2	36.5	35.2	34.4	.

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

TABLE 8 - SIZE (GRAMS PER 100 SEED) FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

STRAIN/ VARIETY	Bossier City, Carbondale,		Jackson,	Keiser,	Knoxville,	McCune,	Orange,	Pittsburg,	Portageville, Portageville,	Springfield,	Stoneville,	Warsaw,	Test Mean	
	LA	IL	TN	AR	TN	KS	VA	KS	MO(A)	MO(B)	TN	MS		VA
Ellis	12.7	.	12.2	11.2	13.6	12.3	12.0	11.4	12.4	12.3	10.9	12.4	11.6	12.1
AG 4632RR2Y	15.9	.	13.4	15.5	15.0	16.3	10.8	14.1	15.3	15.8	12.2	15.3	11.8	14.3
AG 4835	13.7	.	13.0	12.0	12.8	14.7	10.3	11.8	12.2	13.7	11.3	12.4	10.9	12.4
AG 4933RR2	16.2	.	14.7	13.3	14.8	16.6	11.5	16.0	14.8	15.5	12.6	12.8	13.1	14.3
AG 3934RR2	17.4	.	16.3	16.2	15.4	15.9	10.6	17.5	13.9	18.0	14.4	15.1	15.1	15.5
DA09x003-27-76F	14.5	.	13.2	11.9	13.9	12.9	12.1	15.4	12.9	13.8	11.1	13.7	11.6	13.1
DB06x038-70	15.4	.	15.0	13.4	16.5	15.4	14.7	15.7	15.6	15.5	12.9	14.5	13.5	14.8
DS03-14	11.6	.	13.1	14.7	14.6	14.7	9.5	14.5	13.5	15.8	12.0	14.0	12.4	13.4
DS13-141	13.0	.	15.8	14.7	15.3	15.8	10.5	14.8	14.9	17.8	14.1	13.4	13.3	14.5
R09-1589	17.7	.	13.6	13.2	15.2	14.7	15.9	14.2	14.8	14.6	12.6	15.4	13.8	14.6
R09-5026	14.3	.	13.2	12.6	13.1	14.0	12.0	14.3	13.0	13.2	11.1	13.5	11.7	13.0
R10-28	15.3	.	13.9	14.1	16.3	14.1	14.5	16.0	15.7	14.9	11.8	13.9	13.0	14.5
R11-89RY	14.8	.	12.8	11.3	14.7	14.3	16.1	14.5	14.1	14.6	12.0	13.8	12.3	13.8
R12-226	15.3	.	11.9	11.9	13.9	14.5	13.4	14.0	13.2	13.8	10.7	14.3	12.1	13.2
S11-20337	13.8	.	12.0	11.0	14.2	12.2	11.8	13.0	13.1	13.3	10.5	13.2	10.8	12.4
S11-20345	14.7	.	12.3	11.3	14.0	14.9	11.2	13.1	13.2	13.0	10.6	12.8	10.8	12.7
S12-3777	13.7	.	12.8	13.0	13.8	14.1	9.8	13.4	13.7	15.1	11.1	12.7	11.3	12.9
S12-3782	18.8	.	17.4	16.7	17.5	16.8	11.5	18.6	17.1	19.2	13.7	16.1	13.6	16.4
S12-3791	14.6	.	14.4	14.3	14.2	14.4	10.3	17.6	14.4	17.0	12.1	14.6	11.6	14.1
TN11-4510	13.8	.	12.7	13.5	14.6	14.4	14.2	16.1	14.3	14.9	11.8	13.7	11.9	13.8
TN13-4508R2	13.3	.	12.4	12.0	13.0	12.4	10.1	16.6	13.0	12.4	10.7	10.6	10.4	12.3
TN13-4710R2	14.2	.	12.8	12.4	14.5	15.8	11.9	13.4	14.1	14.3	12.0	14.1	12.6	13.5
TN13-5741R2	14.7	.	13.4	14.0	13.8	15.2	12.0	15.0	13.6	15.9	13.5	14.0	11.9	13.9
V09-0610	15.8	.	14.5	14.4	16.1	15.1	13.9	15.2	15.2	16.4	13.2	14.8	14.7	14.9
V11-2149	16.1	.	12.6	13.8	12.9	16.6	9.6	13.5	13.6	14.5	12.0	13.8	12.7	13.5
V11-2263	14.9	.	14.7	16.0	15.3	16.1	10.3	15.5	14.3	16.7	11.5	13.8	12.3	14.3
Mean	14.9	.	13.6	13.4	14.6	14.8	11.9	14.8	14.1	15.1	12.0	13.8	12.3	.

TABLE 9 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
Ellis	9/27	10/2	10/13	9/25	10/2
AG 4632RR2Y	1	-3	-4	-6	-3
AG 4835	2	3	1	-3	1
AG 4933RR2	1	2	-2	-6	-1
AG 3934RR2	-11	-17	-15	-31	-18
DA09x003-27-76F	1	0	-1	0	0
DB06x038-70	-2	-4	-6	-7	-5
DS03-14	-9	-19	-17	-22	-17
DS13-141	-10	-17	-14	-21	-15
R09-1589	2	3	0	-1	1
R09-5026	1	2	1	0	1
R10-28	0	3	1	0	1
R11-89RY	2	3	2	-1	1
R12-226	1	5	1	-1	2
S11-20337	-2	-1	-3	-6	-3
S11-20345	-3	-3	-4	-6	-4
S12-3777	-1	-2	-5	-8	-4
S12-3782	-4	-2	-3	-7	-4
S12-3791	-4	-3	-5	-12	-6
TN11-4510	0	5	1	-4	1
TN13-4508R2	2	1	-1	-3	0
TN13-4710R2	0	-1	1	-3	-1
TN13-5741R2	-2	-3	0	-4	-2
V09-0610	-1	-2	-1	-5	-2
V11-2149	-7	-12	-12	-22	-13
V11-2263	-6	-11	-9	-22	-12
Mean	-2	-3	-4	-8	-4

TABLE 9 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
Ellis	10/7	10/7
AG 4632RR2Y	-11	-11
AG 4835	-2	-2
AG 4933RR2	-8	-8
AG 3934RR2	-22	-22
DA09x003-27-76F	-3	-3
DB06x038-70	-6	-6
DS03-14	-23	-23
DS13-141	-19	-19
R09-1589	5	5
R09-5026	2	2
R10-28	1	1
R11-89RY	1	1
R12-226	1	1
S11-20337	-6	-6
S11-20345	-8	-8
S12-3777	-13	-13
S12-3782	-15	-15
S12-3791	-18	-18
TN11-4510	0	0
TN13-4508R2	-7	-7
TN13-4710R2	-1	-1
TN13-5741R2	-1	-1
V09-0610	-2	-2
V11-2149	-21	-21
V11-2263	-19	-19
Mean	-7	-7

TABLE 9 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

South

STRAIN/ VARIETY	Jackson, TN	Knoxville, TN	Springfield, TN	Area Mean
Ellis	10/8	9/22	9/22	9/27
AG 4632RR2Y	0	-5	-4	-3
AG 4835	3	-5	-2	-2
AG 4933RR2	1	-5	-5	-3
AG 3934RR2	-13	-15	-13	-14
DA09x003-27-76F	-1	0	-1	0
DB06x038-70	-4	-2	-3	-3
DS03-14	-13	-15	-13	-14
DS13-141	-11	-14	-11	-12
R09-1589	5	1	1	2
R09-5026	1	0	1	0
R10-28	1	0	1	1
R11-89RY	1	1	0	0
R12-226	0	1	1	0
S11-20337	-1	-1	-2	-1
S11-20345	-1	-3	-3	-3
S12-3777	-1	-5	-6	-4
S12-3782	0	-3	-7	-3
S12-3791	-3	-9	-12	-8
TN11-4510	1	1	-1	0
TN13-4508R2	0	-4	-3	-2
TN13-4710R2	3	-5	0	-1
TN13-5741R2	-1	-5	-1	-2
V09-0610	1	-1	-1	0
V11-2149	-12	-12	-13	-12
V11-2263	-5	-9	-13	-9
Mean	-2	-4	-4	-4

TABLE 9 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
Ellis	9/25	9/25
AG 4632RR2Y	-1	-1
AG 4835	0	0
AG 4933RR2	-1	-1
AG 3934RR2	-6	-6
DA09x003-27-76F	-1	-1
DB06x038-70	-1	-1
DS03-14	-4	-4
DS13-141	-4	-4
R09-1589	1	1
R09-5026	0	0
R10-28	-1	-1
R11-89RY	0	0
R12-226	0	0
S11-20337	-1	-1
S11-20345	-1	-1
S12-3777	-1	-1
S12-3782	-1	-1
S12-3791	-2	-2
TN11-4510	0	0
TN13-4508R2	0	0
TN13-4710R2	1	1
TN13-5741R2	0	0
V09-0610	0	0
V11-2149	-1	-1
V11-2263	-1	-1
Mean	-1	-1

TABLE 10 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
Ellis	26	26	36	16	26
AG 4632RR2Y	40	40	39	26	36
AG 4835	43	42	38	30	38
AG 4933RR2	46	40	38	30	39
AG 3934RR2	34	35	32	22	31
DA09x003-27-76F	28	29	39	18	28
DB06x038-70	28	32	37	24	30
DS03-14	36	38	38	20	33
DS13-141	45	44	40	32	40
R09-1589	27	32	36	20	29
R09-5026	27	29	35	18	27
R10-28	29	31	35	17	28
R11-89RY	28	28	35	19	27
R12-226	27	28	36	20	28
S11-20337	31	28	35	23	29
S11-20345	27	29	36	22	28
S12-3777	44	44	36	31	39
S12-3782	40	42	38	32	38
S12-3791	37	37	35	25	33
TN11-4510	28	30	34	18	28
TN13-4508R2	43	42	38	34	39
TN13-4710R2	27	25	33	17	25
TN13-5741R2	25	24	32	16	24
V09-0610	31	32	37	19	30
V11-2149	34	34	34	23	31
V11-2263	35	34	35	22	31
Mean	33	34	36	23	.

TABLE 10 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
Ellis	39	39
AG 4632RR2Y	44	44
AG 4835	40	40
AG 4933RR2	47	47
AG 3934RR2	35	35
DA09x003-27-76F	42	42
DB06x038-70	41	41
DS03-14	45	45
DS13-141	48	48
R09-1589	44	44
R09-5026	38	38
R10-28	42	42
R11-89RY	38	38
R12-226	39	39
S11-20337	45	45
S11-20345	42	42
S12-3777	45	45
S12-3782	46	46
S12-3791	38	38
TN11-4510	38	38
TN13-4508R2	43	43
TN13-4710R2	42	42
TN13-5741R2	35	35
V09-0610	42	42
V11-2149	40	40
V11-2263	37	37
Mean	41	.

TABLE 10 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

South

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
Ellis	31	29	28	39	22	30
AG 4632RR2Y	30	39	43	41	28	36
AG 4835	36	38	45	45	31	39
AG 4933RR2	38	39	44	47	31	40
AG 3934RR2	33	29	35	38	25	32
DA09x003-27-76F	33	33	32	43	26	34
DB06x038-70	32	35	33	42	29	34
DS03-14	35	42	36	42	32	37
DS13-141	34	40	40	44	31	38
R09-1589	33	33	30	45	28	34
R09-5026	31	34	28	40	26	32
R10-28	32	38	28	40	28	33
R11-89RY	33	32	30	42	22	32
R12-226	34	34	29	40	29	33
S11-20337	32	37	35	42	31	35
S11-20345	33	35	32	41	26	34
S12-3777	33	38	43	42	26	36
S12-3782	32	41	38	40	31	36
S12-3791	33	35	37	39	27	34
TN11-4510	33	29	30	42	25	32
TN13-4508R2	33	39	41	44	31	38
TN13-4710R2	31	28	26	39	24	30
TN13-5741R2	34	28	30	37	23	30
V09-0610	33	36	33	40	24	33
V11-2149	33	37	35	41	27	35
V11-2263	35	35	33	43	26	34
Mean	33	35	35	41	27	.

TABLE 10 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
Ellis	13	26	24	21
AG 4632RR2Y	32	31	33	32
AG 4835	35	35	35	35
AG 4933RR2	34	34	33	34
AG 3934RR2	24	30	28	27
DA09x003-27-76F	16	30	30	25
DB06x038-70	14	35	31	27
DS03-14	27	33	30	30
DS13-141	30	38	34	34
R09-1589	15	29	29	24
R09-5026	12	30	29	24
R10-28	15	30	32	25
R11-89RY	13	29	27	23
R12-226	13	29	31	24
S11-20337	15	34	35	28
S11-20345	13	34	33	27
S12-3777	31	33	31	31
S12-3782	29	35	34	33
S12-3791	26	29	30	28
TN11-4510	14	29	28	24
TN13-4508R2	35	34	34	34
TN13-4710R2	15	26	29	23
TN13-5741R2	12	27	25	21
V09-0610	14	30	33	26
V11-2149	24	29	28	27
V11-2263	25	30	28	27
Mean	21	31	31	.

TABLE 11 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
Ellis	1.0	2.0	3.0	2.0	2.0
AG 4632RR2Y	2.2	3.0	3.0	2.3	2.6
AG 4835	1.8	3.0	2.7	2.7	2.5
AG 4933RR2	1.3	3.0	2.3	2.7	2.3
AG 3934RR2	2.5	3.0	2.7	2.7	2.7
DA09x003-27-76F	1.5	2.3	3.0	2.0	2.2
DB06x038-70	1.7	3.0	3.0	2.0	2.4
DS03-14	2.7	3.0	3.0	2.3	2.8
DS13-141	2.5	3.0	2.7	2.7	2.7
R09-1589	1.8	2.7	3.0	2.0	2.4
R09-5026	2.0	2.3	2.3	2.0	2.2
R10-28	1.5	2.3	3.0	2.3	2.3
R11-89RY	1.2	2.3	2.0	2.0	1.9
R12-226	1.3	3.0	3.7	2.0	2.5
S11-20337	1.2	3.0	3.0	2.3	2.4
S11-20345	1.2	2.3	3.0	2.0	2.1
S12-3777	4.3	3.0	3.0	3.0	3.3
S12-3782	3.0	3.0	3.0	2.7	2.9
S12-3791	2.7	3.0	3.0	2.3	2.8
TN11-4510	1.3	2.3	3.0	2.0	2.2
TN13-4508R2	1.5	3.0	2.7	2.7	2.5
TN13-4710R2	1.7	2.3	3.0	2.0	2.3
TN13-5741R2	1.0	2.0	2.3	2.0	1.8
V09-0610	1.3	2.3	3.0	2.0	2.2
V11-2149	1.7	2.3	2.0	2.3	2.1
V11-2263	1.5	3.0	2.0	2.0	2.1
Mean	1.8	2.7	2.8	2.3	.

TABLE 11 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
Ellis	1.7	1.7
AG 4632RR2Y	1.2	1.2
AG 4835	1.4	1.4
AG 4933RR2	1.1	1.1
AG 3934RR2	1.1	1.1
DA09x003-27-76F	1.7	1.7
DB06x038-70	2.2	2.2
DS03-14	2.2	2.2
DS13-141	1.4	1.4
R09-1589	1.6	1.6
R09-5026	1.3	1.3
R10-28	1.8	1.8
R11-89RY	1.3	1.3
R12-226	3.0	3.0
S11-20337	2.3	2.3
S11-20345	1.6	1.6
S12-3777	1.7	1.7
S12-3782	1.7	1.7
S12-3791	1.3	1.3
TN11-4510	1.6	1.6
TN13-4508R2	1.4	1.4
TN13-4710R2	1.9	1.9
TN13-5741R2	1.5	1.5
V09-0610	1.9	1.9
V11-2149	1.1	1.1
V11-2263	1.1	1.1
Mean	1.6	.

TABLE 11 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

South

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
Ellis	1.3	1.0	1.3	1.0	1.0	1.1
AG 4632RR2Y	1.3	2.3	3.0	1.0	1.0	1.7
AG 4835	1.7	1.3	3.0	1.0	1.0	1.6
AG 4933RR2	1.7	1.7	3.0	1.0	1.0	1.7
AG 3934RR2	1.3	1.7	1.7	1.0	1.0	1.3
DA09x003-27-76F	2.3	3.0	2.3	1.0	1.0	1.9
DB06x038-70	1.7	2.7	2.7	2.0	1.0	2.0
DS03-14	3.0	4.0	2.3	3.3	1.0	2.7
DS13-141	2.0	2.3	2.3	1.7	1.0	1.9
R09-1589	2.3	2.0	2.0	1.0	1.0	1.7
R09-5026	1.7	1.3	1.3	1.3	1.0	1.3
R10-28	2.3	2.3	1.7	1.0	1.0	1.7
R11-89RY	1.0	1.0	1.3	1.0	1.0	1.1
R12-226	2.0	3.7	2.7	2.3	1.0	2.3
S11-20337	2.3	2.7	3.0	2.3	1.0	2.3
S11-20345	2.7	2.7	3.0	1.3	1.0	2.1
S12-3777	1.7	3.3	3.7	2.3	1.0	2.4
S12-3782	3.3	2.0	3.0	2.0	1.0	2.3
S12-3791	1.7	1.3	2.7	2.0	1.0	1.7
TN11-4510	1.7	3.0	1.3	1.0	1.0	1.6
TN13-4508R2	2.7	2.0	3.0	1.3	1.0	2.0
TN13-4710R2	2.3	1.3	3.0	1.3	1.0	1.8
TN13-5741R2	2.0	1.0	2.3	1.0	1.0	1.5
V09-0610	2.0	2.3	1.7	1.0	1.0	1.6
V11-2149	1.3	1.7	1.7	1.0	1.0	1.3
V11-2263	1.7	1.3	1.7	1.0	1.0	1.3
Mean	2.0	2.1	2.3	1.4	1.0	.

TABLE 11 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
Ellis	1.0	1.0	1.0	1.0
AG 4632RR2Y	1.7	1.0	1.0	1.2
AG 4835	2.0	1.3	1.0	1.4
AG 4933RR2	1.7	1.3	1.0	1.3
AG 3934RR2	1.3	1.7	1.0	1.3
DA09x003-27-76F	1.0	1.3	1.3	1.2
DB06x038-70	1.0	2.0	2.0	1.7
DS03-14	1.0	2.0	1.7	1.6
DS13-141	1.3	2.0	1.3	1.6
R09-1589	1.0	1.0	1.7	1.2
R09-5026	1.0	1.0	1.0	1.0
R10-28	1.0	1.0	1.7	1.2
R11-89RY	1.0	1.0	1.0	1.0
R12-226	1.0	2.0	2.3	1.8
S11-20337	1.0	1.7	3.0	1.9
S11-20345	1.0	1.7	2.3	1.7
S12-3777	2.0	1.3	1.0	1.4
S12-3782	1.7	1.7	1.3	1.6
S12-3791	1.0	1.0	1.0	1.0
TN11-4510	1.0	1.0	1.0	1.0
TN13-4508R2	1.7	1.0	1.3	1.3
TN13-4710R2	1.0	1.0	2.0	1.3
TN13-5741R2	1.0	1.0	1.0	1.0
V09-0610	1.0	1.3	2.0	1.4
V11-2149	1.0	1.0	1.0	1.0
V11-2263	1.3	1.0	1.0	1.1
Mean	1.2	1.3	1.4	.

TABLE 12 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
Ellis	1.0	3.0	3.0	2.0	2.6
AG 4632RR2Y	2.0	3.0	3.0	2.0	2.8
AG 4835	1.0	3.0	3.0	2.0	2.6
AG 4933RR2	1.0	3.0	3.0	2.0	2.6
AG 3934RR2	1.0	3.0	3.0	2.0	2.6
DA09x003-27-76F	1.0	3.0	3.0	2.0	2.6
DB06x038-70	1.0	2.0	3.0	2.0	2.3
DS03-14	2.0	3.0	3.0	2.0	2.8
DS13-141	1.0	3.0	3.0	2.0	2.6
R09-1589	1.0	3.0	3.0	2.0	2.6
R09-5026	2.0	3.0	3.0	2.0	2.8
R10-28	1.0	3.0	3.0	2.0	2.6
R11-89RY	1.0	3.0	3.0	2.0	2.6
R12-226	1.0	3.0	3.0	2.0	2.6
S11-20337	1.0	3.0	3.0	2.0	2.6
S11-20345	1.0	3.0	2.7	2.0	2.5
S12-3777	1.0	3.0	3.0	2.0	2.6
S12-3782	1.0	3.0	3.0	2.0	2.6
S12-3791	1.0	3.0	3.0	2.0	2.6
TN11-4510	1.0	3.0	3.0	2.0	2.6
TN13-4508R2	1.0	3.0	2.7	2.0	2.5
TN13-4710R2	1.0	3.0	3.0	2.0	2.6
TN13-5741R2	1.0	3.0	3.0	2.0	2.6
V09-0610	1.0	3.0	2.7	2.0	2.5
V11-2149	2.0	3.0	3.0	2.0	2.8
V11-2263	2.0	3.0	3.0	2.0	2.8
Mean	1.2	3.0	3.0	2.0	.

TABLE 12 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
Ellis	2.6	2.6
AG 4632RR2Y	1.7	1.7
AG 4835	2.1	2.1
AG 4933RR2	2.3	2.3
AG 3934RR2	2.7	2.7
DA09x003-27-76F	2.2	2.2
DB06x038-70	2.5	2.5
DS03-14	2.2	2.2
DS13-141	2.7	2.7
R09-1589	1.9	1.9
R09-5026	2.3	2.3
R10-28	2.1	2.1
R11-89RY	2.8	2.8
R12-226	2.5	2.5
S11-20337	2.4	2.4
S11-20345	2.0	2.0
S12-3777	1.5	1.5
S12-3782	1.9	1.9
S12-3791	1.6	1.6
TN11-4510	2.0	2.0
TN13-4508R2	2.0	2.0
TN13-4710R2	2.2	2.2
TN13-5741R2	1.9	1.9
V09-0610	1.8	1.8
V11-2149	2.5	2.5
V11-2263	2.0	2.0
Mean	2.2	.

TABLE 12 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

South

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
Ellis	.	1.3	1.0	1.0	1.7	1.3
AG 4632RR2Y	.	2.0	2.0	1.3	1.7	1.8
AG 4835	.	1.3	1.7	1.0	1.0	1.3
AG 4933RR2	.	1.3	1.7	1.3	1.7	1.5
AG 3934RR2	.	2.3	3.0	1.7	2.7	2.4
DA09x003-27-76F	.	1.3	1.7	1.0	1.7	1.4
DB06x038-70	.	2.0	1.0	1.7	1.3	1.5
DS03-14	.	2.3	2.3	2.3	2.3	2.3
DS13-141	.	2.0	2.0	2.3	2.3	2.2
R09-1589	.	1.7	1.0	1.0	2.0	1.4
R09-5026	.	1.7	1.0	1.3	2.0	1.5
R10-28	.	2.0	1.0	1.0	1.3	1.3
R11-89RY	.	1.7	1.0	1.0	1.7	1.3
R12-226	.	2.0	1.0	1.7	1.0	1.4
S11-20337	.	1.3	1.3	1.3	1.0	1.3
S11-20345	.	1.7	2.0	1.0	1.0	1.4
S12-3777	.	2.0	2.0	2.3	1.3	1.9
S12-3782	.	1.7	2.3	1.7	3.0	2.2
S12-3791	.	2.0	2.7	1.7	2.0	2.1
TN11-4510	.	1.3	2.0	1.3	2.7	1.8
TN13-4508R2	.	1.3	2.3	1.3	1.7	1.7
TN13-4710R2	.	1.7	2.3	1.0	1.7	1.7
TN13-5741R2	.	1.7	2.7	1.3	1.7	1.8
V09-0610	.	1.3	2.3	1.0	1.3	1.5
V11-2149	.	2.3	3.7	2.3	2.7	2.8
V11-2263	.	1.7	3.7	1.7	3.0	2.5
Mean	.	1.7	1.9	1.4	1.8	.

TABLE 12 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP IV-S FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
Ellis	1.5	2.0	2.0	1.8
AG 4632RR2Y	2.0	2.0	3.0	2.3
AG 4835	1.5	1.0	2.0	1.5
AG 4933RR2	1.5	1.0	2.0	1.5
AG 3934RR2	2.0	2.0	3.0	2.3
DA09x003-27-76F	2.0	3.0	2.0	2.3
DB06x038-70	1.5	2.0	3.0	2.2
DS03-14	2.0	2.0	3.0	2.3
DS13-141	2.0	2.0	3.0	2.3
R09-1589	2.0	2.0	3.0	2.3
R09-5026	1.5	2.0	2.0	1.8
R10-28	1.5	3.0	3.0	2.5
R11-89RY	1.5	1.0	2.0	1.5
R12-226	2.0	2.0	2.0	2.0
S11-20337	2.0	3.0	2.0	2.3
S11-20345	2.0	2.0	3.0	2.3
S12-3777	2.0	2.0	2.0	2.0
S12-3782	2.5	2.0	2.0	2.2
S12-3791	2.0	2.0	3.0	2.3
TN11-4510	2.0	3.0	3.0	2.7
TN13-4508R2	2.0	2.0	3.0	2.3
TN13-4710R2	2.0	1.0	3.0	2.0
TN13-5741R2	2.0	2.0	3.0	2.3
V09-0610	3.0	3.0	3.0	3.0
V11-2149	2.0	3.0	3.0	2.7
V11-2263	2.0	2.0	3.0	2.3
Mean	1.9	2.1	2.6	.

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TABLE 13 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AG 4232RR2Y	Commercial check		RR2	
2	AG 4632RR2Y	Commercial check		RR2	
3	LD06-7620	IA3023 x LD00-3309		Conv	
4	AG 3934RR2	Commercial check		RR2	
5	LG09-8379-3-1	LG03-1686 x LG04-5993	F6	Conv	Exotic
6	S12-11476	S08-15072 x RR2S10-2355	F5	RR2	
7	S13-2699	LS07-3125 x S05-11400	F5	Conv	SCN
8	S13-3851	S09-9838 x LD05-13265	F5	Conv	SCN
9	S13-8278	R05-235 x S10-6274	F5	RR2	SCN
10	S13-12996	K08-6247 x S08-9727RR	F5	RR1	SCN
11	TN13-3519R2	LD02- 7222P x (TN02-226 x Mon RR2)		RR2	
12	TN13-4505R2	LD02- 7222P x (TN02-226 x Mon RR2)		RR2	
13	TN14-4006	LD00-2817P x (17D x S08-14788 #3)		Conv	High oleic acid
14	TN14-4008	TN09-029 x (17D x S08-14788 #7)		Conv	High oleic acid
15	TN14-4417	TN09-029 x LD00-2817P		Conv	
16	TN14-4425	Holladay x Manokin		Conv	
17	V11-2187	LG04-6000 x V03-7833	F4	Conv	
18	V11-3522	V98-2711 x Schillinger 495	F4	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 14 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN PRELIMINARY TEST IV-S-EARLY FOR YEAR 2015**

STRAIN/ VARIETY	SEED		AVG. MAT.		SEED LOGGING	HEIGHT	SEED		%	%	SCN Cyst Score (1-5 Scale) [†]			SC	SC	FL	PUB.	POD
	YIELD	RANK	RANK	INDEX			QUALITY	SIZE	PROTEIN [†]	OIL [†]	Race 2	Race 3	Race 5	RATING	SCORE	COLOR	COLOR	COLOR
AG 4232RR2Y	60.6	1	4	0	2.1	36	1.9	12.9	35.4	19.2	5	3	5	SS	3	P	G	T
AG 4632RR2Y	57.8	3	7	5	2.1	36	2.1	13.9	34.1	19.5	5	3	4	MR	2	P	G	Br
LD06-7620	53.4	8	10	-7	1.7	30	2.4	13.7	36.0	19.5	4	3	5	SS	3	P	G	Br
AG 3934RR2	52.4	12	10	-8	1.8	32	2.1	15.0	36.1	19.6	4	4	5	MR	2	P	G	Br
LG09-8379-3-1	52.5	11	10	-1	3.2	40	2.2	12.6	36.0	18.7	5	4	5	R	1	W	T	Br
S12-11476	54.9	6	7	1	2.3	35	1.8	14.6	36.4	19.2	4	4	5	R	1	W	G	T
S13-2699	52.0	13	10	-1	2.8	42	2.3	13.4	36.3	20.2	4	5	4	S	5	W	G	T
S13-3851	59.9	2	5	1	2.2	33	2.0	14.3	36.0	19.5	5	5	5	R	1	P	Lt	T
S13-8278	52.9	10	10	1	2.4	38	2.1	14.7	36.0	19.2	4	4	3	R	1	P	G	T
S13-12996	53.1	9	9	4	2.1	33	2.1	13.3	36.6	18.8	5	3	4	R	1	W	G	T
TN13-3519R2	54.8	7	8	0	2.0	40	1.9	15.2	35.8	19.7	4	3	5	R	1	P	G	Br
TN13-4505R2	51.7	15	12	0	2.2	40	1.9	15.3	35.9	19.8	5	3	5	R	1	P	G	Br
TN14-4006	45.0	17	15	1	2.4	34	1.9	12.4	36.8	19.0	4	5	4	MS	4	W	G	T
TN14-4008	44.1	18	15	-3	1.7	29	2.1	13.4	37.4	19.2	2	1	1	SS	3	W	T	T
TN14-4417	51.9	14	11	4	1.6	29	1.9	12.9	35.1	18.5	1	2	1	SS	3	P	T	T
TN14-4425	55.5	5	9	6	1.8	28	1.7	14.1	35.4	19.8	5	5	5	R	1	W	T	T
V11-2187	56.4	4	6	-2	1.8	34	2.0	13.1	36.1	19.6	5	5	5	R	1	P	G	T
V11-3522	48.2	16	14	-4	1.9	33	2.3	13.9	36.9	18.7	4	4	5	R	1	P	G	T
Mean	53.2	.	.	0	2.1	34	2.0	13.8	36.0	19.3	.	.	.	.	.	.	.	.
LSD(0.05)	7.8	.	.	3	.	3	0.4	0.8	0.7	0.5	.	.	.	.	.	.	.	.
CV(%)	14.1	.	.	.	.	11	24.9	6.2	2.1	2.5	.	.	.	.	.	.	.	.

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

[‡]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 7, and HG Type 2.5.7, respectively.

TABLE 15 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, ‡ TN	Stoneville, ‡ MS	Test Mean
AG 4232RR2Y	82.2	78.9	55.8	85.3	60.5	32.8	50.3	27.8	44.8	60.6
AG 4632RR2Y	90.1	71.7	65.7	80.2	75.1	22.9	31.1	27.9	54.2	57.8
LD06-7620	87.9	69.0	50.7	68.6	53.7	29.9	48.3	32.5	40.6	53.4
AG 3934RR2	74.6	74.1	45.0	75.2	55.0	28.5	36.8	34.8	55.4	52.4
LG09-8379-3-1	81.1	58.3	54.7	73.2	50.6	27.4	50.8	23.1	49.6	52.5
S12-11476	79.5	74.1	54.4	73.7	63.0	33.9	30.2	27.0	58.2	54.9
S13-2699	78.7	61.9	59.6	62.7	54.6	33.1	40.2	22.1	49.0	52.0
S13-3851	77.2	71.5	54.5	82.5	65.0	29.6	56.2	21.6	48.0	59.9
S13-8278	88.6	63.2	52.7	67.0	62.7	30.8	41.4	26.6	53.5	52.9
S13-12996	77.0	65.6	61.3	73.6	66.2	16.5	35.5	17.9	38.5	53.1
TN13-3519R2	90.0	71.3	48.3	74.0	59.6	31.0	44.5	28.3	52.5	54.8
TN13-4505R2	77.7	64.4	49.8	66.7	56.4	26.8	46.5	30.8	39.7	51.7
TN14-4006	75.1	54.7	49.1	52.8	47.0	23.5	42.8	22.3	57.2	45.0
TN14-4008	71.5	45.4	50.6	53.9	51.2	20.4	43.5	19.1	65.5	44.1
TN14-4417	80.9	54.2	54.4	64.7	57.7	28.8	52.0	24.5	63.9	51.9
TN14-4425	82.7	51.8	51.5	72.6	60.5	29.0	67.4	22.4	71.3	55.5
V11-2187	67.0	62.5	56.4	70.8	60.5	35.4	53.0	26.1	63.0	56.4
V11-3522	77.1	64.6	44.9	68.1	49.6	28.9	33.2	22.5	56.6	48.2
Mean	80.0	64.3	53.3	70.3	58.2	28.3	44.6	25.4	53.4	53.2
LSD(0.05)	30.8	8.8	9.2	9.8	12.4	5.7	10.0	8.4	26.0	7.8
CV(%)	18.2	6.5	8.2	6.6	10.1	9.6	10.7	15.6	23.2	14.1

‡Data not included in mean: 2015 – Springfield, TN; Stoneville, MS

TABLE 16 - OIL PERCENTAGES† FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	.	18.7	19.7	19.3	19.8	18.8	19.1	18.6	19.9	19.2
AG 4632RR2Y	.	19.3	19.8	19.8	19.9	18.5	19.5	19.3	19.9	19.5
LD06-7620	.	19.3	19.6	18.1	20.1	19.1	19.5	19.8	20.2	19.5
AG 3934RR2	.	19.6	19.9	19.3	20.5	17.6	20.0	19.0	21.0	19.6
LG09-8379-3-1	.	18.6	19.2	18.2	20.0	17.9	19.4	18.1	18.4	18.7
S12-11476	.	18.6	19.7	19.0	20.1	18.0	20.1	18.6	19.2	19.2
S13-2699	.	19.7	20.3	19.7	20.4	18.9	21.1	19.9	21.5	20.2
S13-3851	.	19.1	.	18.6	20.0	19.2	19.6	18.8	20.7	19.5
S13-8278	.	18.5	19.9	17.9	19.8	17.9	20.9	18.3	20.7	19.2
S13-12996	.	18.0	19.6	18.8	19.8	17.6	19.0	18.0	19.3	18.8
TN13-3519R2	.	19.2	19.7	19.7	20.5	18.3	20.3	19.7	20.1	19.7
TN13-4505R2	.	19.1	20.0	19.6	20.6	18.6	20.2	20.4	20.1	19.8
TN14-4006	.	19.0	19.3	19.2	19.7	18.7	19.6	18.2	18.7	19.0
TN14-4008	.	18.4	19.0	18.7	20.1	19.0	19.5	19.1	19.8	19.2
TN14-4417	.	17.2	18.6	17.6	19.4	18.4	19.3	18.3	19.5	18.5
TN14-4425	.	19.2	19.3	19.6	20.4	19.5	19.6	20.1	21.1	19.8
V11-2187	.	18.8	19.6	19.1	20.6	18.6	20.2	19.9	19.9	19.6
V11-3522	.	18.4	18.9	17.6	19.3	18.4	18.5	19.3	19.1	18.7
Mean	.	18.8	19.5	18.9	20.1	18.5	19.7	19.1	20.0	.

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

TABLE 17 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	.	34.8	35.0	36.3	35.0	36.0	34.6	37.7	33.6	35.4
AG 4632RR2Y	.	33.4	34.0	34.6	34.2	34.2	33.8	34.8	33.8	34.1
LD06-7620	.	35.6	35.7	37.5	36.1	36.4	34.8	37.0	35.0	36.0
AG 3934RR2	.	35.2	35.9	37.6	35.9	37.8	33.9	37.5	35.1	36.1
LG09-8379-3-1	.	35.3	36.1	37.5	35.5	36.3	33.9	37.0	36.6	36.0
S12-11476	.	35.9	36.3	37.7	35.7	37.1	34.1	38.3	35.9	36.4
S13-2699	.	36.0	36.9	37.6	36.8	37.7	33.2	37.8	34.2	36.3
S13-3851	.	35.5	.	37.9	35.7	35.0	35.4	38.0	34.1	36.0
S13-8278	.	35.7	34.9	39.0	36.2	36.8	33.0	37.8	34.9	36.0
S13-12996	.	36.8	37.0	37.3	35.7	37.3	35.9	37.1	35.5	36.6
TN13-3519R2	.	35.2	36.0	36.0	35.1	37.8	33.8	37.2	34.9	35.8
TN13-4505R2	.	35.3	35.6	36.6	35.6	37.5	34.2	37.0	35.0	35.9
TN14-4006	.	36.7	36.5	36.1	36.7	37.5	35.1	38.9	36.8	36.8
TN14-4008	.	37.2	38.3	37.7	36.4	37.4	35.3	38.2	38.3	37.4
TN14-4417	.	36.0	35.5	35.9	33.8	35.6	33.6	36.2	34.0	35.1
TN14-4425	.	35.8	35.8	36.2	35.2	35.7	34.1	35.4	35.3	35.4
V11-2187	.	36.4	36.5	38.0	35.8	36.6	33.6	36.1	35.5	36.1
V11-3522	.	35.8	37.4	39.9	36.4	36.8	35.7	36.8	36.3	36.9
Mean	.	35.7	36.1	37.2	35.7	36.6	34.3	37.2	35.3	.

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

TABLE 18 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	.	13.5	13.5	13.7	14.2	10.6	14.5	11.5	12.1	12.9
AG 4632RR2Y	.	13.4	14.1	15.1	15.1	10.6	15.8	11.9	15.4	13.9
LD06-7620	.	14.2	15.2	13.7	13.7	10.3	15.4	12.8	14.2	13.7
AG 3934RR2	.	15.6	16.4	16.1	14.9	11.6	16.3	14.3	15.2	15.0
LG09-8379-3-1	.	13.0	13.4	13.2	13.5	10.0	13.6	11.4	13.1	12.6
S12-11476	.	14.4	15.4	15.9	15.6	11.8	16.3	13.1	14.7	14.6
S13-2699	.	13.1	15.4	13.7	15.4	10.6	14.0	12.3	13.0	13.4
S13-3851	.	14.6	15.4	14.5	15.1	10.8	16.6	12.7	14.9	14.3
S13-8278	.	14.5	13.7	15.7	17.3	11.9	16.0	13.4	15.2	14.7
S13-12996	.	13.1	14.5	14.5	14.8	10.0	15.5	10.6	13.4	13.3
TN13-3519R2	.	14.9	16.4	15.9	16.4	12.3	17.8	14.3	14.1	15.2
TN13-4505R2	.	15.2	16.3	15.5	16.3	11.5	17.8	14.9	14.6	15.3
TN14-4006	.	12.7	13.2	12.1	14.1	9.8	13.7	11.2	12.1	12.4
TN14-4008	.	13.4	14.0	12.6	14.3	10.1	14.5	11.5	16.6	13.4
TN14-4417	.	12.3	13.0	11.9	13.7	13.1	15.0	11.7	12.3	12.9
TN14-4425	.	12.8	13.2	13.8	14.6	14.1	15.2	12.0	17.1	14.1
V11-2187	.	12.6	13.8	14.2	13.9	10.4	15.1	12.0	12.8	13.1
V11-3522	.	13.3	13.9	16.0	14.4	12.0	14.7	12.9	14.5	13.9
Mean	.	13.7	14.5	14.3	14.8	11.2	15.4	12.5	14.2	.

TABLE 19 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	.	9/27	9/30	9/22	9/13	.	10/5	9/14	9/4	9/21
AG 4632RR2Y	.	4	6	6	5	.	5	1	10	5
LD06-7620	.	-7	-8	-2	-7	.	-10	-7	-11	-7
AG 3934RR2	.	-7	-9	-6	-6	.	-10	-7	-11	-8
LG09-8379-3-1	.	-3	-3	1	0	.	-2	-3	5	-1
S12-11476	.	-1	-3	-2	3	.	4	-1	5	1
S13-2699	.	1	1	0	3	.	-7	-1	-2	-1
S13-3851	.	-1	0	1	4	.	2	-5	6	1
S13-8278	.	1	-4	2	3	.	3	1	0	1
S13-12996	.	2	5	4	7	.	3	1	11	4
TN13-3519R2	.	2	1	3	0	.	0	-1	-2	0
TN13-4505R2	.	2	3	2	0	.	-1	-1	-2	0
TN14-4006	.	0	1	2	4	.	-1	-3	8	1
TN14-4008	.	-4	-6	-2	-3	.	-2	-5	5	-3
TN14-4417	.	4	4	3	7	.	7	1	5	4
TN14-4425	.	4	6	3	10	.	7	3	13	6
V11-2187	.	0	-4	-2	3	.	-5	-1	-2	-2
V11-3522	.	-7	-6	0	-6	.	0	-5	-4	-4
Mean	.	-1	-1	1	1	.	0	-2	2	.

TABLE 20 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	37	33	40	34	38	40	.	30	34	36
AG 4632RR2Y	39	35	43	39	39	36	.	27	33	36
LD06-7620	39	29	32	31	30	31	.	24	25	30
AG 3934RR2	36	32	33	37	36	33	.	24	30	32
LG09-8379-3-1	37	36	40	43	41	42	.	32	47	40
S12-11476	36	35	36	38	39	39	.	29	31	35
S13-2699	34	37	44	40	48	45	.	35	52	42
S13-3851	36	29	35	36	38	37	.	24	34	33
S13-8278	36	34	42	41	42	42	.	30	37	38
S13-12996	33	34	37	32	33	34	.	27	34	33
TN13-3519R2	36	36	42	43	44	43	.	32	41	40
TN13-4505R2	36	35	41	41	43	46	.	33	41	40
TN14-4006	33	33	36	36	36	39	.	27	34	34
TN14-4008	35	25	30	23	30	37	.	28	22	29
TN14-4417	37	33	29	27	25	36	.	26	18	29
TN14-4425	36	30	29	27	27	35	.	21	20	28
V11-2187	32	34	37	38	35	38	.	28	29	34
V11-3522	34	33	37	35	35	39	.	27	29	33
Mean	36	33	37	35	36	39	.	28	33	.

TABLE 21 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	1.5	2.7	2.0	1.5	3.0	1.0	3.0	1.0	3.0	2.1
AG 4632RR2Y	1.5	2.5	2.5	2.2	2.0	1.0	3.0	1.0	3.0	2.1
LD06-7620	2.5	2.0	1.5	1.2	1.5	1.0	2.0	1.0	2.5	1.7
AG 3934RR2	1.0	2.0	2.5	1.5	2.0	1.0	2.5	1.0	3.0	1.8
LG09-8379-3-1	2.5	4.2	4.0	4.2	3.5	2.5	3.0	1.0	4.0	3.2
S12-11476	3.0	3.5	2.0	2.0	2.0	1.0	2.0	1.0	4.0	2.3
S13-2699	2.5	3.5	2.5	2.7	3.0	3.0	3.0	1.0	4.0	2.8
S13-3851	1.5	2.5	2.0	2.2	3.5	2.0	2.0	1.0	3.5	2.2
S13-8278	2.5	3.3	3.0	2.0	3.5	1.0	2.0	1.0	3.5	2.4
S13-12996	1.5	3.3	2.5	1.5	2.5	1.0	2.5	1.0	3.0	2.1
TN13-3519R2	1.5	3.0	3.0	1.7	2.0	1.0	2.0	1.0	3.0	2.0
TN13-4505R2	2.0	3.0	3.0	2.0	2.5	1.0	2.5	1.0	3.0	2.2
TN14-4006	2.0	3.5	3.5	3.0	2.0	1.0	2.5	1.0	3.0	2.4
TN14-4008	2.0	1.5	2.0	1.2	1.0	1.5	3.0	1.0	2.0	1.7
TN14-4417	2.0	1.8	1.0	1.0	1.5	1.0	3.0	1.0	2.0	1.6
TN14-4425	2.0	2.0	3.0	1.0	1.5	1.0	3.0	1.0	2.0	1.8
V11-2187	2.0	1.8	2.0	1.5	2.0	1.0	2.5	1.0	2.5	1.8
V11-3522	2.0	2.3	2.0	1.8	2.0	1.0	3.0	1.0	2.5	1.9
Mean	2.0	2.7	2.4	1.9	2.3	1.3	2.6	1.0	3.0	.

TABLE 22 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-EARLY FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Orange, VA	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	.	2.0	1.5	1.0	3.0	2.0	3.0	1.0	2.0	1.9
AG 4632RR2Y	.	2.0	1.0	1.0	3.0	2.5	3.0	2.0	2.0	2.1
LD06-7620	.	2.5	2.0	2.0	3.5	2.0	3.0	2.0	2.0	2.4
AG 3934RR2	.	2.0	1.5	1.0	2.5	2.5	3.0	2.5	2.0	2.1
LG09-8379-3-1	.	2.0	2.0	1.0	3.0	2.0	3.0	2.5	2.0	2.2
S12-11476	.	2.0	1.0	1.0	2.0	1.5	3.0	2.0	2.0	1.8
S13-2699	.	3.0	1.0	2.0	3.5	2.0	3.0	2.0	2.0	2.3
S13-3851	.	2.5	1.0	1.0	3.0	1.5	3.0	2.0	2.0	2.0
S13-8278	.	3.0	2.0	1.0	2.0	1.5	3.0	2.0	2.0	2.1
S13-12996	.	3.0	1.0	1.0	2.0	2.0	3.0	2.5	2.0	2.1
TN13-3519R2	.	2.0	1.0	1.0	3.0	1.0	3.0	2.5	2.0	1.9
TN13-4505R2	.	2.5	1.0	1.0	2.5	1.5	3.0	2.0	2.0	1.9
TN14-4006	.	2.5	1.0	1.0	2.5	2.0	3.0	1.0	2.0	1.9
TN14-4008	.	3.0	2.0	1.0	2.5	2.5	2.0	2.0	2.0	2.1
TN14-4417	.	2.0	1.0	1.0	2.5	1.5	3.0	2.0	2.0	1.9
TN14-4425	.	3.0	1.0	1.0	1.0	1.5	3.0	1.5	2.0	1.7
V11-2187	.	2.5	2.0	1.0	1.0	2.0	3.0	2.5	2.0	2.0
V11-3522	.	2.5	2.0	2.0	3.0	2.0	3.0	2.0	2.0	2.3
Mean	.	2.4	1.4	1.2	2.5	1.9	2.9	2.0	2.0	.

TABLE 23 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	Ellis	Commercial check		Conv	
2	AG 4632RR2Y	Commercial check		RR2	
3	AG 4835	Commercial check		RR2	
4	AG 4933RR2	Commercial check		RR2	
5	K13-1737	KS5004N / NCC06-339	F4	Conv	
6	K13-1845	NCC05-1261 / 435.TCS	F4	Conv	STS
7	K13-1897	NCC05-1261 / LD00-3309	F4	Conv	
8	K13-1910	NCC05-1261 / LD00-3309	F4	Conv	
9	LG10-3671-1	LG04-4866 x LG04-5377	F5	Conv	Exotic
10	R11-399	5601T x R01-1762	F5	Conv	
11	R11-1525	R03-263 x Osage	F4	Conv	
12	R11-6447	R05-1415 x R05-4608	F4	Conv	
13	R11-7141	Osage x R99-1613F	F5	Conv	Diversity 25%-PI 290126B
14	R12-937	R04-198 x Osage	F5	RR1	
15	R12-6878RR	UA 4805 x R02-3263RR	F5	RR1	
16	S11-16882	NCC05-1261 x S05-11482	F5	Conv	
17	S12-2418	S07-5117 x S08-18569	F5	Conv	STS, High Protein
18	S13-8397	S08-17357 x S07-2680	F5	Conv	SCN
19	S13-12582	K07-1633 x S07-10311RR1	F5	RR1	SCN
20	S13-13360	S09-10857 x S08-9727RR	F5	RR1	STS
21	S13-14647	S08-17361 x S08-9727RR	F5	RR1	Diversity
22	TN12-5508R2	TN02-226 x MON RR2Y		RR2	
23	TN13-4303	Reselection of AVRDC AGS 292		Conv	
24	TN14-4001	G03-3101 x LD00-2817P		Conv	
25	TN14-4015	TN09-029 x (17D x S08-14788 #7)		Conv	High oleic acid
26	TN14-4019	LD00-2817P x (17D x S08-14788 #3)		Conv	High oleic acid
27	TN14-4402	TN09-029 x TN10-4030		Conv	
28	V11-3392	V03-7426 x Schillinger 495	F4	RR1	
29	V12-0956	S0-007RR x LD00-3309	F4	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 24 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN PRELIMINARY TEST IV-S-LATE FOR YEAR 2015**

STRAIN/ VARIETY	SEED		AVG.		MAT. INDEX	LODGING	HEIGHT	SEED		% PROTEIN [†]	% OIL [†]	SCN Cyst Score (1-5 Scale) [‡]			SC RATING	SC SCORE	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	INDEX				QUALITY	SIZE			Race 2	Race 3	Race 5					
Ellis	60.6	9	11	0	1.5	28	1.6	12.1	35.4	18.6	5	4	4	R	1	W	G	T	
AG 4632RR2Y	61.9	8	11	-2	2.0	36	2.1	15.3	34.5	19.4	4	2	4	MR	2	P	G	Br	
AG 4835	66.6	1	5	-1	1.9	37	2.0	13.2	35.7	18.5	5	4	2	R	1	P	G	Br	
AG 4933RR2	65.9	3	5	-1	1.8	37	1.7	14.1	35.8	18.9	4	4	3	R	1	P	G	Br	
K13-1737	60.4	11	14	-3	1.7	28	2.1	12.3	34.5	20.2	5	1	3	MS	4	P	S	T	
K13-1845	60.5	10	13	0	1.7	27	1.9	12.8	35.7	18.1	5	4	4	R	1	W	G	Br	
K13-1897	53.3	26	21	-4	1.6	28	1.9	9.9	36.3	18.3	4	1	3	R	1	W	G	T	
K13-1910	57.1	20	18	-3	1.3	26	1.8	11.5	35.1	19.1	5	2	4	R	1	W	G	T	
LG10-3671-1	57.5	15	17	-3	2.7	37	2.7	15.1	34.5	19.7	4	4	4	R	1	W	Lt	Br	
R11-399	57.5	16	16	2	1.6	31	1.8	14.2	35.8	18.7	5	5	5	R	1	W	G	T	
R11-1525	57.5	17	16	1	1.7	29	1.9	13.2	36.8	18.6	5	4	5	R	1	P	T	T	
R11-6447	58.2	14	16	0	1.6	31	2.1	12.5	37.3	18.7	5	4	4	R	1	P	G	T	
R11-7141	56.5	21	17	0	1.3	29	1.9	12.7	36.2	18.4	5	4	5	R	1	P	T	T	
R12-937	56.1	24	20	0	1.6	32	2.0	12.1	38.0	17.6	5	4	5	R	1	P	G	T	
R12-6878RR	56.5	22	18	2	1.6	32	2.0	12.2	35.6	18.3	5	4	4	R	1	P	G	T	
S11-16882	66.0	2	6	-2	2.4	32	1.9	13.2	34.6	18.6	5	4	3	S	5	W	G	T	
S12-2418	64.3	4	8	-3	2.0	34	2.1	17.4	37.1	19.1	5	4	3	R	1	W	Lt	T	
S13-8397	64.2	5	8	-2	2.4	38	2.2	17.3	36.7	19.2	4	4	3	R	1	W	G	T	
S13-12582	58.7	13	13	-1	1.9	35	2.2	14.4	35.8	19.1	5	3	5	MS	4	W	G	T	
S13-13360	63.1	6	10	2	1.9	36	2.2	14.5	36.3	19.1	4	3	5	R	1	W	G	T	
S13-14647	59.6	12	14	3	2.0	37	2.0	14.4	35.2	19.7	5	5	5	R	1	W	T	T	
TN12-5508R2	62.6	7	10	-1	1.8	38	2.1	12.4	33.2	19.2	2	1	2	S	5	P	G	T	
TN13-4303	57.4	18	15	1	1.4	29	1.8	14.3	37.1	18.7	5	5	5	MR	2	W	G	T	
TN14-4001	47.3	29	27	-5	2.7	44	2.3	13.5	39.3	18.1	5	4	5	R	1	P	G	T	
TN14-4015	53.3	25	22	-5	1.5	25	2.2	14.2	37.2	19.2	5	2	4	S	5	P	T	T	
TN14-4019	47.9	28	26	-6	2.4	34	2.1	13.7	36.3	19.9	5	4	5	MS	4	W	G	T	
TN14-4402	51.8	27	22	0	1.6	30	1.8	12.7	35.3	19.2	5	2	5	SS	3	P	T	T	
V11-3392	56.4	23	18	-3	2.5	41	2.4	13.7	37.3	18.9	5	1	4	R	1	P	T	T	
V12-0956	57.3	19	17	-4	2.3	38	2.1	12.2	34.3	20.3	5	5	5	R	1	W	T	T	
Mean	58.5	.	.	-1	1.9	33	2.0	13.5	36.0	19.0	.	.	.	.	.	.	.	.
LSD(0.05)	5.6	.	.	2	.	4	0.4	1.0	0.7	0.4	.	.	.	.	.	.	.	.
CV(%)	12.3	.	.	156	.	13	22.2	7.1	1.7	2.0	.	.	.	.	.	.	.	.

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

‡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 7, and HG Type 2.5.7, respectively.

TABLE 25 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	73.5	49.9	78.8	63.8	52.6	39.0	64.5	62.6	60.6
AG 4632RR2Y	72.5	46.9	81.5	78.0	44.2	36.1	65.1	71.2	61.9
AG 4835	91.9	53.9	77.8	76.3	53.5	43.5	65.4	70.9	66.6
AG 4933RR2	84.6	54.0	80.6	73.1	55.4	48.2	64.1	66.9	65.9
K13-1737	85.1	42.5	71.2	71.7	47.6	42.0	61.0	62.3	60.4
K13-1845	75.4	44.2	71.3	71.8	54.6	42.0	68.7	56.0	60.5
K13-1897	74.0	43.8	58.9	55.8	42.5	40.3	53.9	56.7	53.3
K13-1910	80.7	38.5	64.4	60.9	46.7	44.6	61.3	59.5	57.1
LG10-3671-1	66.7	40.8	75.7	64.2	49.3	37.8	58.1	67.4	57.5
R11-399	72.8	42.1	71.4	66.8	53.8	31.4	64.9	56.7	57.5
R11-1525	88.5	48.0	55.3	60.7	49.0	30.4	66.4	61.2	57.5
R11-6447	71.0	48.2	77.9	62.6	53.0	32.2	61.0	60.1	58.2
R11-7141	72.1	52.2	61.1	53.8	41.3	38.7	62.2	67.7	56.5
R12-937	71.2	47.3	73.6	65.4	47.2	30.5	58.6	55.9	56.1
R12-6878RR	76.5	41.1	71.3	58.9	44.8	33.2	64.0	62.3	56.5
S11-16882	91.5	47.6	75.3	.	57.9	44.8	69.9	69.6	66.0
S12-2418	81.0	55.0	84.5	75.0	50.2	40.7	57.6	70.6	64.3
S13-8397	71.5	52.5	89.0	69.2	56.4	45.9	62.7	66.4	64.2
S13-12582	52.7	47.4	79.4	63.4	55.4	42.2	59.8	69.2	58.7
S13-13360	79.5	49.0	77.7	76.7	45.1	47.7	62.3	67.0	63.1
S13-14647	80.0	43.4	67.8	72.2	57.4	33.7	62.6	60.2	59.6
TN12-5508R2	88.1	52.2	79.5	66.9	40.5	48.1	64.3	61.0	62.6
TN13-4303	77.7	48.5	71.6	51.1	48.3	36.0	63.5	62.9	57.4
TN14-4001	66.7	39.5	59.2	46.0	46.2	30.2	49.4	41.6	47.3
TN14-4015	69.9	53.6	58.8	52.6	43.8	36.0	60.3	51.7	53.3
TN14-4019	53.3	39.5	66.3	51.0	46.6	26.8	48.3	50.7	47.9
TN14-4402	71.2	33.2	65.7	51.8	48.9	34.7	61.4	47.3	51.8
V11-3392	77.2	47.8	61.3	47.2	50.1	43.0	59.3	59.6	56.4
V12-0956	69.9	48.3	74.6	61.4	51.7	37.8	52.8	62.2	57.3
Mean	75.4	46.6	71.8	63.1	49.4	38.6	61.1	61.3	58.5
LSD(0.05)	21.0	12.4	13.7	19.7	9.2	5.8	7.9	9.4	5.6
CV(%)	13.6	12.5	9.3	13.9	9.0	7.4	6.3	7.5	12.3

TABLE 26 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	.	19.2	17.8	19.3	17.8	.	18.4	19.4	18.6
AG 4632RR2Y	.	.	19.4	20.1	18.0	.	19.3	19.8	19.4
AG 4835	.	.	18.6	19.3	17.7	.	18.0	18.6	18.5
AG 4933RR2	.	19.8	18.4	19.9	17.9	.	18.9	18.7	18.9
K13-1737	.	20.5	19.3	20.8	18.9	.	20.2	21.3	20.2
K13-1845	.	19.0	16.9	18.4	17.1	.	17.9	19.2	18.1
K13-1897	.	18.7	17.8	18.7	17.1	.	18.7	19.1	18.3
K13-1910	.	19.3	18.9	19.8	17.6	.	19.1	19.9	19.1
LG10-3671-1	.	20.4	19.5	20.1	18.4	.	19.4	20.6	19.7
R11-399	.	19.7	17.8	19.5	17.5	.	18.5	19.4	18.7
R11-1525	.	18.7	18.3	19.8	17.4	.	18.0	19.3	18.6
R11-6447	.	18.8	18.5	19.5	17.5	.	18.4	19.7	18.7
R11-7141	.	.	18.0	19.2	17.3	.	18.2	18.8	18.4
R12-937	.	.	17.7	18.4	16.4	.	17.1	18.0	17.6
R12-6878RR	.	.	17.8	18.7	17.3	.	18.3	18.9	18.3
S11-16882	.	.	18.0	19.4	16.8	.	18.2	20.3	18.6
S12-2418	.	.	18.5	20.3	18.1	.	18.8	19.5	19.1
S13-8397	.	19.4	18.5	20.3	18.6	.	18.9	19.6	19.2
S13-12582	.	19.8	18.9	19.9	18.2	.	19.0	19.0	19.1
S13-13360	.	19.3	19.0	20.0	18.0	.	18.1	20.0	19.1
S13-14647	.	19.6	20.0	20.8	18.6	.	19.0	20.5	19.7
TN12-5508R2	.	19.7	19.0	20.4	18.1	.	18.6	19.3	19.2
TN13-4303	.	19.1	18.0	19.8	17.5	.	18.7	18.9	18.7
TN14-4001	.	18.3	17.1	18.5	17.9	.	18.0	18.7	18.1
TN14-4015	.	19.2	19.1	19.9	18.0	.	19.0	19.9	19.2
TN14-4019	.	20.6	19.4	20.5	19.3	.	19.9	19.7	19.9
TN14-4402	.	.	18.9	19.8	18.3	.	19.1	19.5	19.2
V11-3392	.	.	18.7	20.0	18.2	.	18.9	18.5	18.9
V12-0956	.	.	20.0	21.5	19.4	.	19.9	20.4	20.3
Mean	.	19.4	18.5	19.7	17.9	.	18.7	19.5	.

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

TABLE 27 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	.	35.7	36.3	35.3	35.4	.	34.9	34.7	35.4
AG 4632RR2Y	.	.	35.0	33.4	35.3	.	34.3	33.8	34.5
AG 4835	.	.	36.4	34.8	36.2	.	35.5	35.2	35.7
AG 4933RR2	.	36.1	36.2	34.7	36.5	.	35.4	35.7	35.8
K13-1737	.	35.0	35.9	33.6	35.5	.	33.5	33.7	34.5
K13-1845	.	35.4	37.3	35.3	36.0	.	35.2	35.2	35.7
K13-1897	.	36.9	36.6	36.2	36.9	.	34.8	36.2	36.3
K13-1910	.	36.0	35.2	34.2	36.4	.	34.1	34.8	35.1
LG10-3671-1	.	34.7	35.3	34.4	34.7	.	34.2	33.6	34.5
R11-399	.	36.1	36.5	34.8	36.5	.	35.6	35.4	35.8
R11-1525	.	38.4	36.7	35.8	36.7	.	36.9	36.3	36.8
R11-6447	.	38.3	38.1	36.7	36.9	.	36.6	36.9	37.3
R11-7141	.	.	36.8	35.3	36.5	.	35.6	36.4	36.2
R12-937	.	.	38.0	37.1	38.2	.	37.8	38.2	38.0
R12-6878RR	.	.	35.8	35.5	36.2	.	35.1	34.6	35.6
S11-16882	.	.	35.2	33.8	35.5	.	34.3	33.6	34.6
S12-2418	.	.	38.5	35.9	37.0	.	37.0	36.4	37.1
S13-8397	.	37.5	38.8	35.5	36.1	.	36.4	36.0	36.7
S13-12582	.	35.9	37.3	35.0	36.2	.	35.1	35.4	35.8
S13-13360	.	37.1	37.6	35.2	36.7	.	36.3	34.9	36.3
S13-14647	.	36.3	34.7	34.7	35.5	.	35.2	34.5	35.2
TN12-5508R2	.	33.9	34.7	31.8	32.3	.	33.0	33.2	33.2
TN13-4303	.	37.3	37.3	36.5	38.1	.	36.4	36.9	37.1
TN14-4001	.	40.6	42.0	39.6	37.3	.	39.1	37.0	39.3
TN14-4015	.	37.9	37.4	36.6	37.5	.	36.8	36.9	37.2
TN14-4019	.	36.3	37.6	36.2	35.5	.	35.4	36.6	36.3
TN14-4402	.	.	35.3	34.4	35.3	.	35.1	35.8	35.3
V11-3392	.	.	38.1	36.1	36.8	.	37.2	37.8	37.3
V12-0956	.	.	35.6	33.8	34.4	.	33.8	33.3	34.3
Mean	.	36.6	36.8	35.2	36.1	.	35.5	35.5	.

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

TABLE 28 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	.	11.9	10.8	13.2	12.5	11.2	12.3	13.0	12.1
AG 4632RR2Y	.	14.2	15.3	15.5	16.7	15.1	16.0	14.7	15.3
AG 4835	.	12.2	12.4	12.9	15.0	15.0	13.5	11.2	13.2
AG 4933RR2	.	14.7	13.0	15.0	17.2	11.4	15.6	12.2	14.1
K13-1737	.	10.9	11.1	12.3	12.0	16.7	11.8	11.3	12.3
K13-1845	.	11.2	11.1	13.2	13.5	14.0	13.3	13.1	12.8
K13-1897	.	9.3	9.6	10.2	10.9	9.2	10.8	9.1	9.9
K13-1910	.	10.6	10.4	11.3	11.7	14.2	11.3	10.8	11.5
LG10-3671-1	.	14.5	14.5	15.0	15.5	14.0	16.9	15.3	15.1
R11-399	.	14.4	12.6	15.5	14.2	12.2	15.5	15.4	14.2
R11-1525	.	13.0	11.5	13.4	13.8	14.6	14.0	12.2	13.2
R11-6447	.	12.1	12.4	12.5	13.6	11.8	13.5	11.8	12.5
R11-7141	.	12.7	11.7	13.0	12.6	12.4	13.6	12.8	12.7
R12-937	.	11.6	12.2	12.6	12.5	11.5	12.5	12.2	12.1
R12-6878RR	.	12.2	11.3	12.6	12.4	13.1	12.6	11.2	12.2
S11-16882	.	12.1	12.0	14.1	13.0	15.4	13.4	12.2	13.2
S12-2418	.	16.3	16.2	17.9	17.6	18.7	19.3	15.7	17.4
S13-8397	.	16.2	16.7	17.4	18.1	16.8	19.2	16.9	17.3
S13-12582	.	14.2	14.6	14.6	15.5	14.1	14.7	13.4	14.4
S13-13360	.	13.6	14.7	15.5	15.3	14.7	14.1	13.8	14.5
S13-14647	.	14.3	13.0	15.1	16.0	14.4	14.9	13.2	14.4
TN12-5508R2	.	12.0	11.5	12.4	13.9	12.4	13.2	11.2	12.4
TN13-4303	.	13.9	12.1	15.6	16.2	12.5	14.5	15.1	14.3
TN14-4001	.	14.0	14.2	14.1	14.7	12.8	13.9	11.1	13.5
TN14-4015	.	13.8	14.1	14.7	16.3	11.5	14.6	14.5	14.2
TN14-4019	.	13.4	13.9	13.9	15.7	12.8	14.4	12.3	13.7
TN14-4402	.	11.4	12.4	13.1	14.7	12.7	13.8	10.6	12.7
V11-3392	.	13.2	13.8	13.2	15.1	12.6	14.7	13.1	13.7
V12-0956	.	12.1	13.0	12.1	13.8	10.9	13.1	10.8	12.2
Mean	.	12.9	12.8	13.8	14.5	13.4	14.1	12.8	.

TABLE 29 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	.	10/6	9/26	9/21	.	.	10/14	9/23	9/30
AG 4632RR2Y	.	1	2	-4	.	.	-5	-5	-2
AG 4835	.	2	2	-5	.	.	-1	-5	-1
AG 4933RR2	.	1	2	-2	.	.	-2	-6	-1
K13-1737	.	-5	-2	0	.	.	-2	-5	-3
K13-1845	.	0	3	4	.	.	0	-4	0
K13-1897	.	-3	-3	-5	.	.	-2	-9	-4
K13-1910	.	-1	-3	0	.	.	-3	-9	-3
LG10-3671-1	.	-1	-1	-3	.	.	-6	-6	-3
R11-399	.	1	2	4	.	.	2	1	2
R11-1525	.	1	1	3	.	.	0	1	1
R11-6447	.	2	2	3	.	.	-1	-5	0
R11-7141	.	1	2	1	.	.	-1	-5	0
R12-937	.	1	2	3	.	.	0	-5	0
R12-6878RR	.	5	2	3	.	.	2	0	2
S11-16882	.	-1	-1	2	.	.	-1	-6	-2
S12-2418	.	-1	0	-3	.	.	-2	-10	-3
S13-8397	.	1	3	-5	.	.	-2	-7	-2
S13-12582	.	0	2	-3	.	.	-1	-3	-1
S13-13360	.	3	4	4	.	.	0	1	2
S13-14647	.	5	5	4	.	.	-1	1	3
TN12-5508R2	.	1	2	-4	.	.	-2	-3	-1
TN13-4303	.	0	3	3	.	.	1	-1	1
TN14-4001	.	-3	-2	-4	.	.	-8	-11	-5
TN14-4015	.	-1	-2	-4	.	.	-7	-11	-5
TN14-4019	.	-5	-3	-5	.	.	-8	-11	-6
TN14-4402	.	0	2	4	.	.	0	-6	0
V11-3392	.	-2	2	-5	.	.	-5	-7	-3
V12-0956	.	1	-1	-3	.	.	-4	-11	-4
Mean	.	0	1	-1	.	.	-2	-5	.

**TABLE 30 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN
PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015**

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	34	28	27	24	29	25	35	19	27
AG 4632RR2Y	35	39	40	36	32	33	40	34	36
AG 4835	36	37	44	41	36	33	37	30	37
AG 4933RR2	34	37	42	42	35	34	38	31	36
K13-1737	36	27	27	28	28	28	30	21	28
K13-1845	39	25	24	26	27	25	30	19	27
K13-1897	38	30	25	27	27	29	31	20	28
K13-1910	36	28	22	27	24	25	29	21	26
LG10-3671-1	34	33	41	40	35	31	37	46	37
R11-399	34	33	31	30	31	31	35	26	31
R11-1525	37	30	25	28	26	28	34	27	29
R11-6447	35	30	26	32	33	29	35	27	31
R11-7141	37	30	25	26	29	27	34	26	29
R12-937	34	29	33	36	31	30	36	32	32
R12-6878RR	36	34	29	29	31	32	38	29	32
S11-16882	35	34	27	29	33	33	37	28	32
S12-2418	33	35	36	38	30	30	36	33	33
S13-8397	34	42	39	38	40	35	39	39	38
S13-12582	36	36	36	38	33	31	36	36	35
S13-13360	35	34	39	40	31	30	38	43	36
S13-14647	35	39	37	41	33	32	40	43	37
TN12-5508R2	31	39	41	39	33	34	42	44	38
TN13-4303	32	32	27	29	31	29	36	20	29
TN14-4001	38	39	48	48	40	39	46	53	44
TN14-4015	33	27	22	25	24	23	30	17	25
TN14-4019	30	36	36	35	32	28	39	37	34
TN14-4402	35	29	28	30	33	26	37	21	30
V11-3392	36	45	41	41	41	39	46	41	41
V12-0956	35	39	44	41	36	31	36	44	38
Mean	35	33	33	34	32	30	36	31	.

TABLE 31 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	2.5	1.0	1.0	1.0	1.0	1.0	2.5	2.0	1.5
AG 4632RR2Y	1.0	2.5	2.5	1.5	1.5	1.0	3.0	3.0	2.0
AG 4835	1.5	1.5	2.0	2.0	1.0	1.0	3.0	3.0	1.9
AG 4933RR2	1.5	1.5	1.5	1.5	1.5	1.0	3.0	3.0	1.8
K13-1737	2.5	1.0	1.0	2.0	1.0	1.0	3.0	2.0	1.7
K13-1845	2.5	1.0	1.5	2.0	1.0	1.0	2.5	2.0	1.7
K13-1897	2.0	1.0	1.0	1.5	1.0	1.5	2.5	2.0	1.6
K13-1910	1.5	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.3
LG10-3671-1	2.5	2.5	3.0	4.0	2.0	1.0	3.0	3.5	2.7
R11-399	2.0	1.0	1.5	1.5	1.0	1.0	3.0	2.0	1.6
R11-1525	2.0	1.0	2.0	1.5	1.0	1.0	3.0	2.5	1.7
R11-6447	2.0	1.0	1.0	1.0	1.5	1.0	3.0	2.0	1.6
R11-7141	1.5	1.0	1.0	1.0	1.0	1.0	2.0	2.0	1.3
R12-937	1.5	1.0	1.0	2.0	1.0	1.0	3.0	2.0	1.6
R12-6878RR	1.0	1.0	2.0	2.0	1.0	1.0	3.0	2.0	1.6
S11-16882	1.5	3.5	2.0	2.5	2.0	2.5	3.0	2.0	2.4
S12-2418	1.0	2.0	2.0	3.0	1.0	1.0	3.0	3.0	2.0
S13-8397	1.0	3.5	2.5	3.5	2.0	1.0	3.0	3.0	2.4
S13-12582	2.0	1.5	2.0	2.5	1.5	1.0	2.0	3.0	1.9
S13-13360	1.5	2.0	1.5	2.0	1.5	1.0	3.0	3.0	1.9
S13-14647	3.0	1.0	2.5	1.5	1.0	1.0	3.0	3.0	2.0
TN12-5508R2	1.5	2.0	1.0	2.0	1.0	1.0	3.0	3.0	1.8
TN13-4303	1.0	1.0	1.5	1.0	1.0	1.0	3.0	2.0	1.4
TN14-4001	1.5	2.5	3.5	3.5	2.0	2.0	3.0	3.5	2.7
TN14-4015	1.5	1.5	1.0	1.5	1.0	1.0	2.5	2.0	1.5
TN14-4019	1.0	3.5	4.0	2.0	1.5	1.0	3.0	3.0	2.4
TN14-4402	1.5	1.5	1.5	1.0	1.0	1.0	3.0	2.0	1.6
V11-3392	1.5	3.5	2.5	2.5	2.0	2.0	3.0	3.0	2.5
V12-0956	1.0	2.0	2.5	3.5	1.5	1.0	3.0	4.0	2.3
Mean	1.7	1.7	1.8	2.0	1.3	1.1	2.8	2.6	.

**TABLE 32 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN
PRELIMINARY GROUP IV-S-LATE FOR YEAR 2015**

STRAIN/ VARIETY	Carbondale, IL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
Ellis	.	1.0	1.0	1.0	2.0	2.0	2.5	2.0	1.6
AG 4632RR2Y	.	2.0	1.0	2.5	2.0	2.0	3.0	2.0	2.1
AG 4835	.	1.0	2.0	2.0	2.0	2.0	3.0	2.0	2.0
AG 4933RR2	.	1.0	1.0	1.0	2.0	2.0	3.0	2.0	1.7
K13-1737	.	1.5	1.0	2.0	3.0	3.0	2.5	2.0	2.1
K13-1845	.	1.0	1.0	1.0	3.0	3.0	3.0	2.0	1.9
K13-1897	.	1.5	1.0	1.0	3.0	2.0	3.0	2.0	1.9
K13-1910	.	1.0	1.0	1.5	2.0	2.0	3.0	2.0	1.8
LG10-3671-1	.	2.0	2.0	2.5	3.0	3.0	4.0	2.0	2.7
R11-399	.	1.5	1.0	1.0	2.0	2.0	3.0	2.0	1.8
R11-1525	.	1.0	2.0	1.0	3.0	2.0	3.0	2.0	1.9
R11-6447	.	1.0	2.0	2.0	2.0	3.0	3.0	2.0	2.1
R11-7141	.	1.0	2.0	1.0	2.0	3.0	3.0	2.0	1.9
R12-937	.	1.0	1.0	2.0	3.0	2.0	3.0	2.0	2.0
R12-6878RR	.	1.0	1.0	2.0	3.0	2.0	3.0	2.0	2.0
S11-16882	.	1.0	1.0	1.5	2.0	3.0	3.0	2.0	1.9
S12-2418	.	1.5	1.0	2.0	3.0	2.0	3.0	2.0	2.1
S13-8397	.	2.0	2.0	1.5	2.0	3.0	3.0	2.0	2.2
S13-12582	.	1.5	2.0	2.0	3.0	2.0	3.0	2.0	2.2
S13-13360	.	1.5	1.0	3.0	3.0	2.0	2.5	2.0	2.2
S13-14647	.	1.0	1.0	2.5	2.0	2.0	3.0	2.0	2.0
TN12-5508R2	.	1.5	1.0	1.5	3.0	3.0	3.0	2.0	2.1
TN13-4303	.	1.0	1.0	1.5	2.0	2.0	3.0	2.0	1.8
TN14-4001	.	1.5	2.0	2.0	3.0	3.0	3.0	2.0	2.3
TN14-4015	.	2.0	1.0	1.5	3.0	3.0	3.0	2.0	2.2
TN14-4019	.	2.0	1.0	2.5	2.0	2.0	3.0	2.0	2.1
TN14-4402	.	1.0	1.0	1.0	2.0	3.0	3.0	2.0	1.8
V11-3392	.	1.5	1.0	3.0	3.0	3.0	3.0	2.0	2.4
V12-0956	.	2.0	1.0	1.5	2.0	3.0	3.0	2.0	2.1
Mean	.	1.4	1.3	1.7	2.5	2.4	3.0	2.0	.

TABLE 33 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC†	SPECIAL TRAITS‡
1	OSAGE	Hartz 5545 x KS4895		Conv	
2	Ellis	Commercial check		Conv	
3	JTN-5203	R93-171 x Anand	F16	Conv	SCN, FLS
4	UA 5612	Commercial check		Conv	
5	AG 5332RR2Y	Commercial check		RR2	
6	AG 5534RR2	Commercial check		RR2	
7	AG 5335	Commercial check		RR2	
8	DA09x003-45-182F	DB01-5289 x DA08x27		Conv	Low linolenic acid
9	JTN-5110	J98-32 x Anand	F13	Conv	SCN, FLS
10	K12-1355	R04-357/JTN-5503	F4	Conv	
11	NCC09-200719-1-37	NCC04-619 x NCC04-1555		Conv	50% Midwestern pedigree
12	R10-197RY	Ozark(2) x RR2Y	F5	RR2	
13	R11-262	5002T x UA 5612	F5	Conv	
14	R12-1622	JTN-4507 x R04-122	F5	Conv	
15	R12-2079	R03-1232 x R01-327	F5	Conv	
16	R12-2142	R05-235 x R02-3065	F3	Conv	
17	S11-16653	S07-2680 x LG04-6000	F5	Conv	
18	S11-17025	S05-11268 x S05-11482	F5	Conv	
19	S11-20124	S05-11482 x S06-4649RR	F5	Conv	
20	S11-20195	S05-11482 x S06-4649RR	F5	RR1	
21	S12-11150	S07-2680 x RR2S10-5737	F5	RR2	
22	TN11-5102	Hutcheson x TN89-39		Conv	
23	TN11-5104	Hutcheson x TN89-39		Conv	
24	TN12-5716	TN02-226 x MON RR2Y		RR2	
25	V08-1924	S00-9925-10 x S00-9985-03	F4	Conv	
26	V10-0262	R02-2363 x V98-2711	F4	Conv	
27	V10-1687	V98-2711 x V02-8659	F4	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 34 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST V FOR YEAR 2015**

STRAIN/ VARIETY	RANK	AVERAGE		YIELD †			PROTEIN‡			OIL‡	
		RANK	2015	14-15	13-15	2015	14-15	13-15	2015	14-15	13-15
OSAGE	13	13	57.7	57.3	57.3	37.5	37.2	37.4	18.3	18.3	18.4
Ellis	3	9	59.8	58.9	.	35.2	34.9	.	18.5	18.7	.
JTN-5203	27	19	54.2	55.0	56.1	35.4	35.3	35.5	19.0	19.1	19.1
UA 5612	17	16	56.7	.	.	35.3	.	.	18.9	.	.
AG 5332RR2Y	8	12	58.4	56.8	58.0	35.5	35.7	35.7	18.7	18.9	19.0
AG 5534RR2	26	19	54.6	56.4	.	35.0	34.6	.	19.6	19.8	.
AG 5335	22	18	55.2	.	.	35.9	.	.	19.2	.	.
DA09x003-45-182F	24	18	54.8	.	.	35.0	.	.	18.7	.	.
JTN-5110	25	18	54.7	55.2	56.1	35.7	35.8	35.9	19.2	19.2	19.2
K12-1355	16	13	57.0	.	.	34.2	.	.	19.4	.	.
NCC09-200719-1-3	12	12	57.8	58.6	59.8	34.6	34.4	34.5	18.8	18.9	19.0
R10-197RY	23	17	55.2	55.7	.	34.8	34.8	.	19.1	19.1	.
R11-262	14	12	57.5	58.8	.	35.1	34.9	.	18.9	18.9	.
R12-1622	19	16	56.2	.	.	34.6	.	.	19.3	.	.
R12-2079	18	16	56.7	.	.	35.6	.	.	18.4	.	.
R12-2142	6	11	58.7	.	.	35.4	.	.	19.1	.	.
S11-16653	5	11	58.8	.	.	35.0	.	.	19.2	.	.
S11-17025	4	12	59.4	.	.	35.9	.	.	18.9	.	.
S11-20124	1	10	60.4	60.5	.	33.9	33.7	.	19.7	20.0	.
S11-20195	9	14	57.9	.	.	34.4	.	.	19.4	.	.
S12-11150	2	10	59.8	.	.	35.4	.	.	18.5	.	.
TN11-5102	11	12	57.8	57.6	.	36.8	36.6	.	18.5	18.7	.
TN11-5104	20	16	56.0	56.4	57.5	36.5	36.3	36.5	18.5	18.7	18.7
TN12-5716	15	14	57.1	58.0	.	35.0	34.8	.	18.5	18.6	.
V08-1924	10	13	57.9	57.1	57.3	34.7	34.5	34.6	19.7	19.9	19.8
V10-0262	7	10	58.6	.	.	36.8	.	.	18.7	.	.
V10-1687	21	16	55.5	.	.	37.5	.	.	19.0	.	.
Mean	.	.	57.2	.	.	35.5	.	.	18.9	.	.
LSD(0.05)	.	.	4.0	.	.	0.5	.	.	0.4	.	.
CV(%)	.	.	12.1	.	.	1.7	.	.	2.2	.	.

†Data not included in mean: 2015 – Orange, VA; Springfield, TN; Bossier City, LA
2014 – Starkville, MS; Bossier City, LA
2013 – Kinston, NC; Starkville

‡Protein percentage and oil percentage data from 2013 and 2014 were converted from dry weight basis to a 13% moisture basis using a 0.87 conversion factor in order to calculate the multi-year averages.

TABLE 35 - GENERAL SUMMARY OF BOTANICAL TRAITS FOR STRAIN/VARIETY GROWN IN UNIFORM TEST V FOR YEAR 2015

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
OSAGE	0	1.4	27	1.9	12.7	P	G	T
Ellis	-2	1.7	27	1.9	12.6	W	G	T
JTN-5203	-3	1.6	27	2.1	12.7	W	G	T
UA 5612	1	2.3	32	2.2	12.8	P	G	T
AG 5332RR2Y	-4	2.2	35	2.3	13.7	P	T	T
AG 5534RR2	1	1.9	33	2.0	14.8	W	T	T
AG 5335	-2	1.8	36	2.2	14.6	W	G	T
DA09x003-45-182F	0	2.2	31	2.1	13.3	W	T	T
JTN-5110	-2	1.9	29	2.3	14.6	P	T	T
K12-1355	-1	2.3	29	1.9	14.1	W	G	T
NCC09-200719-1-37	-3	1.8	28	2.1	12.8	P	G	T
R10-197RY	0	1.7	30	1.9	14.0	P	G	T
R11-262	0	1.9	30	2.3	13.5	P	G	T
R12-1622	2	1.9	31	2.0	13.8	P	G	T
R12-2079	5	2.2	35	1.8	15.9	P	G	T
R12-2142	2	2.0	31	1.9	15.7	P	T	T
S11-16653	-1	2.0	29	1.9	15.5	P	T	T
S11-17025	-1	2.2	29	2.2	13.6	W	T	T
S11-20124	-1	2.9	34	2.0	12.9	W	T	T
S11-20195	-3	2.8	31	2.2	13.0	P	T	T
S12-11150	2	2.2	33	1.8	14.3	W	G	T
TN11-5102	-1	1.9	30	1.8	13.8	W	G	T
TN11-5104	-2	1.8	30	1.9	13.6	W	G	T
TN12-5716	4	2.0	32	1.9	12.7	P	T	T
V08-1924	-1	2.8	32	2.4	14.0	W	T	T
V10-0262	0	1.8	29	2.2	14.3	W	T	T
V10-1687	-6	1.8	25	2.4	13.4	W	T	T
Mean	-1	2.0	31	2.1	13.8			
LSD(0.05)	2	0.3	2	0.3	0.8			
CV(%)	435	29.0	9	24.0	8.0			

**TABLE 36 - GENERAL SUMMARY OF PEST REACTION FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST V FOR YEAR 2015**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX
OSAGE	4	3	3	4.8	4.3	MR	2.0	26
Ellis	5	5	5	4.5	1.3	R	1.0	33
JTN-5203	1	2	1	4.8	5.0	SS	3.0	15
UA 5612	4	4	5	2.0	4.8	R	1.0	44
AG 5332RR2Y	3	4	5	2.5	5.0	MR	2.0	25
AG 5534RR2	4	4	4	4.0	5.0	R	1.0	36
AG 5335	3	2	3	2.3	3.8	R	1.0	21
DA09x003-45-182F	4	4	4	2.0	1.5	R	1.0	31
JTN-5110	1	1	1	4.0	5.0	SS	3.0	19
K12-1355	2	2	2	2.0	3.5	MS	4.0	11
NCC09-200719-1-37	5	4	5	4.8	1.3	R	1.0	31
R10-197RY	4	3	5	2.8	3.8	R	1.0	20
R11-262	4	5	5	3.0	5.0	R	1.0	50
R12-1622	4	3	5	2.3	4.8	MS	4.0	39
R12-2079	4	3	5	3.0	4.0	R	1.0	26
R12-2142	4	3	5	4.3	1.0	R	1.0	33
S11-16653	2	1	3	2.8	1.0	R	1.0	33
S11-17025	1	1	1	5.0	2.8	MS	4.0	14
S11-20124	1	1	2	3.3	1.0	S	5.0	10
S11-20195	1	1	1	2.5	1.0	SS	3.0	8
S12-11150	2	2	3	2.5	5.0	R	1.0	28
TN11-5102	4	5	5	3.8	1.0	R	1.0	33
TN11-5104	4	4	5	3.8	1.0	R	1.0	42
TN12-5716	3	3	2	4.8	5.0	SS	3.0	36
V08-1924	2	2	1	4.0	3.0	SS	3.0	14
V10-0262	5	5	5	4.0	4.5	R	1.0	19
V10-1687	5	4	4	4.5	2.0	R	1.0	42

†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 7, and HG Type 2.5.7, respectively.

TABLE 37 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST V FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
OSAGE	77.1	60.7	65.4	76.3	69.9
Ellis	73.1	68.3	66.9	63.2	67.9
JTN-5203	64.4	59.4	57.9	49.1	57.7
UA 5612	74.5	71.4	66.2	71.7	70.9
AG 5332RR2Y	77.2	70.0	62.0	56.0	66.3
AG 5534RR2	63.5	66.2	63.8	62.3	63.9
AG 5335	67.9	64.0	61.7	67.2	65.2
DA09x003-45-182F	64.4	60.0	60.2	67.5	63.0
JTN-5110	68.6	62.2	60.9	55.9	61.9
K12-1355	65.7	53.0	68.2	62.0	62.2
NCC09-200719-1-37	65.3	65.4	66.8	67.4	66.2
R10-197RY	67.4	59.6	59.7	63.4	62.5
R11-262	70.7	72.3	68.0	71.1	70.5
R12-1622	74.1	68.8	63.3	66.5	68.2
R12-2079	66.2	66.0	67.5	66.1	66.7
R12-2142	71.7	69.0	63.5	66.8	67.8
S11-16653	67.2	69.0	65.6	56.4	64.5
S11-17025	79.1	68.6	68.8	61.3	69.4
S11-20124	77.1	71.1	60.2	80.6	72.2
S11-20195	67.6	73.0	59.1	77.6	69.3
S12-11150	76.3	70.7	59.2	74.3	70.1
TN11-5102	67.1	58.3	67.3	64.4	64.3
TN11-5104	68.2	63.7	62.4	64.1	64.6
TN12-5716	72.8	68.5	65.6	52.6	64.7
V08-1924	78.1	71.1	64.6	64.5	69.6
V10-0262	77.3	62.1	64.0	71.3	68.7
V10-1687	75.2	70.1	61.2	46.8	63.3
Mean	71.0	66.0	63.7	64.7	66.4
LSD(0.05)	11.7	7.0	9.5	13.1	7.4
CV(%)	9.9	6.5	9.1	12.4	11.2

TABLE 37 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST V FOR YEAR 2015

East

STRAIN/ VARIETY	Plymouth, NC	Suffolk, VA	Warsaw, VA	Area Mean
OSAGE	53.4	58.8	53.0	55.0
Ellis	57.2	53.0	54.4	54.9
JTN-5203	48.9	51.5	48.4	49.6
UA 5612	54.1	47.0	48.2	49.8
AG 5332RR2Y	47.9	54.5	47.8	50.1
AG 5534RR2	48.8	58.4	47.2	51.5
AG 5335	50.8	42.5	43.2	45.5
DA09x003-45-182F	55.4	56.4	49.2	53.7
JTN-5110	48.2	55.5	45.3	49.7
K12-1355	58.4	59.2	53.1	56.9
NCC09-200719-1-37	57.6	54.8	48.8	53.7
R10-197RY	54.4	54.5	50.1	53.0
R11-262	57.8	49.8	52.7	53.5
R12-1622	54.7	51.4	49.2	51.8
R12-2079	65.0	60.4	48.6	58.0
R12-2142	63.5	52.6	52.5	56.8
S11-16653	53.8	57.3	48.0	53.1
S11-17025	51.1	50.6	47.0	49.6
S11-20124	56.7	56.3	46.2	52.9
S11-20195	56.8	52.6	41.1	50.2
S12-11150	52.9	57.3	50.5	53.6
TN11-5102	59.8	58.7	55.6	58.0
TN11-5104	55.9	53.9	54.5	54.8
TN12-5716	53.0	55.3	52.7	53.7
V08-1924	56.8	49.1	42.4	49.4
V10-0262	57.9	63.3	56.2	59.1
V10-1687	52.9	62.1	44.8	53.3
Mean	55.0	54.7	49.3	53.0
LSD(0.05)	9.5	13.1	5.7	5.8
CV(%)	10.5	14.3	7.1	11.3

TABLE 37 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST V FOR YEAR 2015

South

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Knoxville, TN	Orange, ‡ VA	Springfield, ‡ TN	Area Mean
OSAGE	58.0	53.7	57.6	34.9	32.5	56.4
Ellis	64.3	58.0	65.7	33.6	36.9	62.7
JTN-5203	54.7	56.0	55.8	29.5	34.6	55.5
UA 5612	51.3	51.5	59.6	28.0	38.6	54.1
AG 5332RR2Y	59.7	56.3	65.9	29.9	36.0	60.6
AG 5534RR2	51.7	51.6	61.2	27.0	36.1	54.5
AG 5335	52.3	52.7	56.1	38.8	38.3	53.7
DA09x003-45-182F	55.0	51.2	57.8	31.2	30.6	54.7
JTN-5110	53.7	57.3	49.0	30.3	49.0	53.3
K12-1355	58.3	47.3	59.9	33.8	44.7	55.2
NCC09-200719-1-37	57.3	58.2	62.2	35.5	34.8	59.2
R10-197RY	52.7	52.3	60.6	23.1	33.7	55.2
R11-262	57.7	46.8	63.1	34.5	34.6	55.8
R12-1622	57.7	41.2	62.1	30.7	38.4	53.7
R12-2079	53.0	50.5	55.2	29.5	39.8	52.9
R12-2142	60.0	55.5	60.0	36.3	27.9	58.8
S11-16653	64.7	57.1	59.5	32.1	40.2	60.4
S11-17025	64.0	54.2	67.6	31.5	38.8	61.9
S11-20124	54.3	54.4	62.8	31.2	39.0	57.2
S11-20195	53.3	53.4	54.9	28.4	43.0	53.9
S12-11150	61.3	54.3	62.2	39.9	41.5	59.3
TN11-5102	56.0	53.6	63.3	34.3	38.9	57.6
TN11-5104	49.7	52.4	58.9	38.1	39.2	53.7
TN12-5716	51.0	50.0	63.0	37.9	45.6	54.7
V08-1924	51.7	53.3	64.6	23.7	42.5	56.5
V10-0262	55.0	44.1	64.3	44.4	32.2	54.5
V10-1687	50.3	55.0	59.1	34.9	34.7	54.8
Mean	55.9	52.7	60.4	32.7	37.9	56.3
LSD(0.05)	13.9	9.8	9.7	10.5	10.3	6.4
CV(%)	15.2	11.3	9.6	19.5	16.6	12.1

‡Data not included in mean: 2015 – Orange, VA; Springfield, TN

TABLE 37 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST V FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, ‡ LA	McCune, KS	Pittsburg, ‡ KS	Area Mean
OSAGE	38.0	48.4	30.5	39.5
Ellis	28.6	53.1	39.6	46.4
JTN-5203	32.6	51.5	52.8	52.2
UA 5612	40.7	49.4	35.7	42.6
AG 5332RR2Y	51.5	53.1	50.2	51.7
AG 5534RR2	40.9	47.4	33.8	40.6
AG 5335	46.9	51.6	52.7	52.1
DA09x003-45-18	27.0	46.3	33.7	40.0
JTN-5110	24.9	48.4	51.8	50.1
K12-1355	19.3	51.6	47.2	49.4
NCC09-200719-	51.5	51.4	38.1	44.8
R10-197RY	34.3	51.6	35.7	43.7
R11-262	31.4	50.3	29.8	40.1
R12-1622	53.2	47.0	37.9	42.4
R12-2079	55.4	45.0	35.9	40.5
R12-2142	53.0	52.2	36.2	44.2
S11-16653	47.9	58.9	48.1	53.5
S11-17025	40.9	49.9	50.7	50.3
S11-20124	37.6	57.2	47.7	52.5
S11-20195	47.1	55.3	50.3	52.8
S12-11150	57.9	55.2	43.7	49.4
TN11-5102	25.9	48.5	40.7	44.6
TN11-5104	29.0	50.5	37.4	44.0
TN12-5716	36.3	55.8	45.5	50.6
V08-1924	38.3	49.1	49.8	49.5
V10-0262	42.4	52.7	34.8	43.8
V10-1687	19.3	51.7	36.5	44.1
Mean	38.9	51.2	41.7	46.5
LSD(0.05)	15.0	5.1	4.7	9.7
CV(%)	23.5	6.0	6.8	11.5

‡Data not included in mean: 2015 – Bossier City, LA; Pittsburg, KS

TABLE 38 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Keiser, AR	Knoxville, TN	McCune, KS	Orange, VA	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Warsaw, VA	Test Mean
OSAGE	18.6	17.8	18.3	19.3	17.3	18.7	18.0	18.0	18.7	18.3	18.5	18.3
Ellis	18.7	.	17.9	19.4	17.6	18.7	18.2	18.4	17.8	20.0	18.4	18.5
JTN-5203	20.1	18.7	17.5	19.6	18.0	19.1	18.5	19.1	19.0	20.1	18.8	19.0
UA 5612	19.7	18.5	18.2	19.6	17.7	19.3	18.8	18.4	19.0	19.6	18.9	18.9
AG 5332RR2Y	19.4	18.8	19.0	19.8	18.1	17.8	18.8	18.8	18.9	18.7	18.1	18.7
AG 5534RR2	20.3	19.8	18.8	20.7	18.8	19.7	19.1	19.2	19.9	19.6	20.0	19.6
AG 5335	19.5	19.2	19.0	20.2	18.2	18.5	18.9	19.3	19.8	19.4	18.7	19.2
DA09x003-45-182F	18.9	18.8	18.2	19.4	.	18.9	17.9	18.2	19.2	18.3	18.9	18.5
JTN-5110	19.9	19.2	18.5	19.8	18.1	19.7	18.7	19.1	18.8	19.7	19.6	19.2
K12-1355	20.0	18.8	18.5	20.1	18.0	19.9	19.2	18.9	19.4	20.9	20.0	19.4
NCC09-200719-1-37	19.7	.	17.5	19.3	17.4	19.7	18.0	18.8	19.2	19.2	19.0	18.8
R10-197RY	19.5	19.1	18.7	19.8	17.3	19.1	18.9	19.0	19.4	19.8	19.2	19.1
R11-262	19.3	.	18.3	19.3	17.1	19.4	18.6	18.6	19.1	19.6	19.3	18.8
R12-1622	20.1	.	19.2	20.3	17.5	18.8	19.6	19.1	19.4	19.7	19.7	19.3
R12-2079	18.9	.	18.0	19.1	16.5	18.0	18.1	16.9	18.8	20.7	18.8	18.4
R12-2142	20.1	19.3	16.6	20.5	18.0	19.5	19.5	18.9	18.8	20.2	19.2	19.1
S11-16653	19.5	19.2	18.1	20.2	17.6	19.5	19.0	19.1	19.5	20.3	19.2	19.2
S11-17025	19.2	18.8	18.7	19.7	17.6	18.9	18.6	18.6	18.6	19.9	19.8	18.9
S11-20124	20.2	19.2	18.9	21.2	18.1	19.8	19.7	19.3	19.8	20.6	20.0	19.7
S11-20195	19.6	19.1	18.8	20.2	17.6	19.2	19.4	19.4	19.4	20.6	19.7	19.4
S12-11150	18.6	18.0	18.1	18.9	16.8	19.0	18.3	17.9	19.1	19.6	19.0	18.5
TN11-5102	19.3	18.6	16.7	19.5	17.4	18.6	18.2	18.3	18.6	19.1	19.2	18.5
TN11-5104	19.7	.	17.4	19.6	17.1	18.3	18.1	18.1	18.9	19.1	19.1	18.5
TN12-5716	19.2	18.3	18.2	19.4	17.1	18.5	18.5	18.0	18.5	18.8	19.4	18.5
V08-1924	20.7	19.6	19.7	20.4	18.5	19.9	19.3	19.3	19.4	20.3	20.1	19.7
V10-0262	19.1	.	18.5	19.5	16.8	19.3	18.6	17.7	18.7	19.3	19.0	18.6
V10-1687	20.4	.	18.3	20.0	17.9	18.7	19.0	19.3	18.9	19.3	18.2	19.0
Mean	19.6	18.9	18.3	19.8	17.6	19.1	18.7	18.7	19.1	19.7	19.2	.

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

TABLE 39 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

STRAIN/ VARIETY	<i>Belle Mina,</i>		<i>Jackson, Keiser,</i>		<i>Knoxville, McCune,</i>		<i>Orange, Portageville,</i>		<i>Portageville, Springfield,</i>		<i>Stoneville, Warsaw,</i>		Test Mean
	AL	TN	AR	TN	KS	VA	MO(A)	MO(B)	TN	MS	VA		
OSAGE	37.3	39.1	38.0	37.0	37.7	36.4	37.5	37.1	38.5	37.9	35.9	37.5	
Ellis	35.3	.	36.1	35.1	35.7	35.0	34.8	34.6	36.9	34.4	34.3	35.3	
JTN-5203	34.4	37.8	36.4	35.4	35.5	35.1	35.2	35.5	35.9	33.8	34.3	35.4	
UA 5612	34.5	36.2	35.7	34.8	35.8	34.6	34.7	35.7	36.1	34.9	34.8	35.3	
AG 5332RR2Y	34.3	36.2	35.0	35.0	35.7	36.4	35.4	35.3	36.1	35.7	35.9	35.5	
AG 5534RR2	33.8	35.8	35.8	34.2	35.7	34.8	34.9	34.2	36.7	35.7	33.6	35.0	
AG 5335	34.5	36.5	36.8	34.8	36.7	36.0	35.9	35.5	36.6	36.2	35.5	35.9	
DA09x003-45-182F	35.6	36.1	34.4	34.6	.	34.6	35.8	35.2	35.7	34.7	33.6	35.1	
JTN-5110	35.1	36.2	36.1	35.3	36.4	35.1	35.9	36.0	36.6	35.4	34.1	35.7	
K12-1355	33.5	35.5	35.1	34.1	35.0	33.1	34.4	34.4	35.1	33.2	33.2	34.2	
NCC09-200719-1-37	34.0	.	35.8	34.3	34.8	33.4	35.1	34.5	36.2	34.4	33.9	34.7	
R10-197RY	34.2	35.6	35.9	34.7	36.1	33.8	35.2	34.2	35.9	33.9	33.4	34.8	
R11-262	34.9	.	35.8	35.1	35.3	34.7	34.7	34.7	36.5	35.6	33.7	35.2	
R12-1622	33.5	.	35.3	34.0	35.4	34.8	34.2	34.3	35.9	35.5	33.0	34.7	
R12-2079	34.7	.	36.4	35.9	36.2	35.8	35.9	36.9	36.5	32.6	34.8	35.7	
R12-2142	33.7	36.1	37.8	34.6	35.3	34.6	35.3	35.4	37.4	35.1	34.1	35.4	
S11-16653	35.2	36.0	35.5	34.5	34.4	35.0	35.3	34.8	35.9	34.0	34.4	35.0	
S11-17025	35.9	37.2	36.0	35.6	36.8	35.9	35.4	35.9	36.9	34.5	34.5	35.9	
S11-20124	33.6	34.9	34.6	33.0	33.9	33.5	34.0	34.1	35.2	33.1	32.7	33.9	
S11-20195	34.4	35.5	35.7	34.5	34.7	34.7	33.9	34.1	35.4	33.0	32.9	34.4	
S12-11150	35.0	36.4	36.1	35.6	35.3	35.7	35.4	35.5	36.2	34.1	34.0	35.4	
TN11-5102	36.4	37.7	38.0	36.4	38.1	36.5	36.3	37.0	37.4	36.5	34.6	36.8	
TN11-5104	35.2	.	37.6	36.1	38.0	37.0	36.2	36.8	36.9	36.6	34.5	36.6	
TN12-5716	33.6	35.5	35.7	34.4	36.3	35.3	34.4	34.9	36.8	34.3	33.6	35.0	
V08-1924	33.4	36.0	34.9	34.7	35.0	34.1	35.0	34.9	36.4	34.5	32.9	34.7	
V10-0262	36.4	.	37.3	37.5	36.5	35.5	37.2	36.7	37.6	38.5	35.1	36.9	
V10-1687	36.0	.	38.4	37.4	37.3	38.4	37.7	36.3	38.3	37.9	37.5	37.6	
Mean	34.8	36.3	36.2	35.1	35.9	35.2	35.4	35.4	36.5	35.0	34.3	.	

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

TABLE 40 - SIZE (GRAMS PER 100 SEED) FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

STRAIN/ VARIETY	<i>Belle Mina, Bossier City, Jackson, Keiser, Knoxville, McCune, Orange, Pittsburg, Plymouth, Portageville, Portageville, Springfield, Stoneville, Suffolk, Warsaw, Test</i>															
	<i>AL</i>	<i>LA</i>	<i>TN</i>	<i>AR</i>	<i>TN</i>	<i>KS</i>	<i>VA</i>	<i>KS</i>	<i>NC</i>	<i>MO(A)</i>	<i>MO(B)</i>	<i>TN</i>	<i>MS</i>	<i>VA</i>	<i>VA</i>	<i>Mean</i>
OSAGE	13.7	14.7	12.9	11.7	11.9	12.5	14.4	11.2	.	12.6	13.8	10.7	11.7	13.6	11.6	12.7
Ellis	13.6	13.9	12.9	11.3	12.8	13.2	11.2	16.1	.	12.5	12.2	10.2	13.3	12.7	11.0	12.6
JTN-5203	14.1	14.2	14.6	9.2	13.1	12.5	13.0	14.8	.	12.8	13.1	11.1	11.6	13.6	10.6	12.7
UA 5612	12.5	14.6	12.5	11.9	13.3	12.2	12.8	15.8	.	12.5	12.6	11.2	12.6	13.3	11.3	12.8
AG 5332RR2Y	14.2	14.4	14.5	12.6	14.4	15.4	10.7	15.7	.	14.5	14.7	12.8	12.6	13.8	11.3	13.7
AG 5534RR2	15.0	15.1	15.8	12.9	15.8	14.8	12.3	17.4	.	15.8	15.6	13.6	13.9	16.0	13.5	14.8
AG 5335	14.6	17.9	14.8	15.0	14.5	16.2	11.6	16.8	.	14.9	15.1	14.6	13.6	13.4	11.8	14.6
DA09x003-45-182F	14.3	14.6	14.0	11.8	12.9	.	13.2	14.8	.	13.0	13.5	12.2	12.9	13.9	12.0	13.3
JTN-5110	15.6	14.1	15.3	13.2	14.9	15.4	15.0	16.5	.	15.0	16.5	12.8	12.2	15.0	12.7	14.6
K12-1355	14.2	13.6	13.9	12.3	14.5	14.7	13.7	17.6	.	13.8	14.2	12.5	13.8	15.1	13.1	14.1
NCC09-200719-1-37	12.9	14.8	13.0	11.3	12.5	11.7	14.1	16.9	.	12.4	13.0	11.4	11.2	12.6	11.3	12.8
R10-197RY	13.5	15.5	14.0	12.5	14.2	12.4	16.9	16.0	.	14.0	13.8	12.2	13.2	15.1	13.3	14.0
R11-262	13.8	15.0	13.9	12.9	14.6	13.1	15.1	12.1	.	13.4	13.1	11.9	13.4	13.8	12.8	13.5
R12-1622	13.1	14.9	13.6	13.4	13.8	15.0	17.1	13.2	.	14.0	12.8	12.1	13.6	13.5	12.9	13.8
R12-2079	15.4	18.2	16.9	14.7	16.1	15.7	19.3	14.5	.	16.4	15.3	15.0	11.6	16.7	16.7	15.9
R12-2142	14.9	17.1	17.0	11.4	16.9	15.0	19.9	14.5	.	16.5	16.6	14.0	12.8	16.9	16.3	15.7
S11-16653	17.4	17.3	17.0	12.6	15.5	14.5	15.8	16.8	.	15.8	16.6	14.5	13.9	16.2	12.7	15.5
S11-17025	15.0	15.0	13.6	12.5	14.0	13.7	14.9	15.4	.	13.4	14.5	12.0	10.9	14.0	12.2	13.6
S11-20124	13.6	14.2	13.6	11.7	13.4	12.5	12.8	12.4	.	14.0	13.8	12.8	9.6	14.3	11.7	12.9
S11-20195	13.6	13.7	13.7	11.6	13.8	14.0	12.2	13.8	.	13.6	13.1	11.7	12.1	14.0	10.9	13.0
S12-11150	14.1	15.4	15.1	13.4	13.8	13.8	16.1	12.6	.	14.9	14.5	13.2	14.8	15.5	13.4	14.3
TN11-5102	14.8	14.1	13.9	10.5	15.0	13.9	16.4	13.2	.	13.7	14.5	12.7	13.6	14.4	12.7	13.8
TN11-5104	14.2	13.7	14.6	12.4	14.4	13.5	14.8	13.0	.	13.5	13.8	13.0	12.5	14.6	12.2	13.6
TN12-5716	11.2	11.6	13.3	10.8	11.9	12.1	18.5	12.1	.	12.9	12.5	12.6	10.5	14.3	13.3	12.7
V08-1924	14.3	14.3	14.3	13.5	15.4	13.2	14.7	13.8	.	14.4	14.9	12.9	12.1	15.4	12.2	14.0
V10-0262	14.6	14.5	14.4	14.0	15.7	14.1	16.5	12.5	.	15.1	14.1	12.8	14.3	13.9	13.9	14.3
V10-1687	14.9	13.6	15.1	13.2	13.8	12.9	13.1	12.0	.	14.7	14.0	11.9	12.4	15.0	10.5	13.4
Mean	14.2	14.8	14.4	12.4	14.2	13.8	14.7	14.5	.	14.1	14.2	12.5	12.6	14.5	12.5	.

TABLE 41 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

Delta					
STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
OSAGE	9/29	10/5	10/15	9/26	10/4
Ellis	-3	-1	-1	-2	-2
JTN-5203	-5	-1	-2	-7	-4
UA 5612	1	3	2	-1	1
AG 5332RR2Y	-1	0	-1	-16	-4
AG 5534RR2	0	3	3	-7	0
AG 5335	-1	0	-1	-4	-1
DA09x003-45-182F	-1	1	0	-2	0
JTN-5110	0	1	-1	-4	-1
K12-1355	0	1	1	-5	-1
NCC09-200719-1-37	-8	-2	0	-8	-4
R10-197RY	0	1	-1	-3	-1
R11-262	-1	2	0	-2	0
R12-1622	3	3	1	-2	1
R12-2079	8	7	6	4	6
R12-2142	3	3	3	-2	2
S11-16653	-2	0	0	-2	-1
S11-17025	0	0	-1	-7	-2
S11-20124	-1	0	1	-2	-1
S11-20195	-3	-5	-3	-8	-5
S12-11150	0	3	2	2	2
TN11-5102	-3	1	1	-5	-2
TN11-5104	-2	0	0	-5	-2
TN12-5716	4	5	5	2	4
V08-1924	0	0	2	-6	-1
V10-0262	0	1	0	-3	-1
V10-1687	-4	-6	-5	-15	-7
Mean	-1	1	0	-4	-1

TABLE 41 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

East

STRAIN/ VARIETY	Warsaw, VA	Area Mean
OSAGE	10/9	10/9
Ellis	-2	-2
JTN-5203	-2	-2
UA 5612	3	3
AG 5332RR2Y	-12	-12
AG 5534RR2	2	2
AG 5335	-9	-9
DA09x003-45-182F	-1	-1
JTN-5110	-1	-1
K12-1355	1	1
NCC09-200719-1-37	0	0
R10-197RY	2	2
R11-262	1	1
R12-1622	4	4
R12-2079	6	6
R12-2142	4	4
S11-16653	-1	-1
S11-17025	1	1
S11-20124	0	0
S11-20195	-3	-3
S12-11150	4	4
TN11-5102	-1	-1
TN11-5104	-1	-1
TN12-5716	6	6
V08-1924	1	1
V10-0262	1	1
V10-1687	-12	-12
Mean	0	0

TABLE 41 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

South

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Knoxville, TN	Springfield, TN	Area Mean
OSAGE	10/6	10/13	9/29	9/30	10/4
Ellis	0	-4	0	-7	-3
JTN-5203	-6	-1	0	-6	-3
UA 5612	-2	1	3	2	1
AG 5332RR2Y	-5	0	0	-7	-3
AG 5534RR2	-1	2	2	1	1
AG 5335	0	-1	0	-4	-1
DA09x003-45-182F	-1	-2	1	-1	-1
JTN-5110	-5	-2	1	-5	-3
K12-1355	-3	-1	1	0	-1
NCC09-200719-1-37	-3	-2	0	-3	-2
R10-197RY	-2	1	2	-1	0
R11-262	-2	1	2	1	1
R12-1622	0	1	3	2	2
R12-2079	1	7	5	4	4
R12-2142	0	5	2	3	2
S11-16653	0	-4	0	-4	-2
S11-17025	1	-2	1	-4	-1
S11-20124	-3	3	0	-3	-1
S11-20195	-4	-4	0	-4	-3
S12-11150	2	2	3	0	2
TN11-5102	-1	-1	0	-2	-1
TN11-5104	-5	-2	-1	-3	-3
TN12-5716	1	6	4	4	4
V08-1924	-3	-2	2	-1	-1
V10-0262	-1	-2	0	0	-1
V10-1687	-11	-2	0	-8	-5
Mean	-2	0	1	-2	-1

TABLE 41 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
OSAGE	9/28	9/28
Ellis	0	0
JTN-5203	1	1
UA 5612	3	3
AG 5332RR2Y	2	2
AG 5534RR2	1	1
AG 5335	2	2
DA09x003-45-182F	1	1
JTN-5110	1	1
K12-1355	0	0
NCC09-200719-1-37	0	0
R10-197RY	1	1
R11-262	1	1
R12-1622	1	1
R12-2079	6	6
R12-2142	2	2
S11-16653	0	0
S11-17025	1	1
S11-20124	1	1
S11-20195	0	0
S12-11150	1	1
TN11-5102	1	1
TN11-5104	1	1
TN12-5716	5	5
V08-1924	0	0
V10-0262	2	2
V10-1687	0	0
Mean	1	1

TABLE 42 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
OSAGE	25	29	32	22	27
ELLIS	27	27	34	17	26
JTN-5203	26	26	32	15	25
UA 5612	29	34	38	23	31
AG 5332RR2Y	39	42	35	25	35
AG 5534RR2	33	34	38	24	32
AG 5335	37	41	37	30	36
DA09x003-45-182F	34	31	36	20	30
JTN-5110	28	30	37	19	28
K12-1355	28	31	36	16	28
NCC09-200719-1-37	27	27	33	19	27
R10-197RY	29	30	34	22	29
R11-262	28	28	35	20	28
R12-1622	30	33	36	17	29
R12-2079	34	35	39	22	33
R12-2142	30	29	37	22	30
S11-16653	25	29	34	19	27
S11-17025	27	27	33	21	27
S11-20124	34	32	37	25	32
S11-20195	29	28	36	23	29
S12-11150	33	35	37	24	32
TN11-5102	29	27	36	17	27
TN11-5104	27	29	37	18	28
TN12-5716	31	31	36	24	30
V08-1924	27	32	37	22	30
V10-0262	28	31	34	20	28
V10-1687	22	24	32	16	23
Mean	30	31	36	21	.

TABLE 42 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

East

STRAIN/ VARIETY	Plymouth, NC	Suffolk, VA	Warsaw, VA	Area Mean
OSAGE	27	29	36	31
ELLIS	25	31	39	32
JTN-5203	29	30	39	33
UA 5612	36	33	44	37
AG 5332RR2Y	40	41	41	40
AG 5534RR2	34	38	44	39
AG 5335	41	39	38	38
DA09x003-45-182F	34	39	42	38
JTN-5110	34	32	40	35
K12-1355	32	30	43	35
NCC09-200719-1-37	30	31	37	32
R10-197RY	32	33	42	36
R11-262	31	31	42	35
R12-1622	32	38	44	38
R12-2079	40	39	47	42
R12-2142	32	32	43	36
S11-16653	28	35	40	35
S11-17025	26	34	39	34
S11-20124	33	42	48	42
S11-20195	31	34	43	36
S12-11150	31	36	43	37
TN11-5102	34	40	42	39
TN11-5104	35	35	41	37
TN12-5716	34	38	43	38
V08-1924	32	41	42	39
V10-0262	30	31	41	34
V10-1687	24	27	33	28
Mean	32	35	41	.

TABLE 42 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

South

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
OSAGE	33	30	23	.	25	28
ELLIS	32	33	25	.	25	29
JTN-5203	33	32	27	.	26	29
UA 5612	36	37	32	.	31	34
AG 5332RR2Y	37	40	35	.	29	35
AG 5534RR2	37	39	37	.	30	36
AG 5335	39	43	37	.	29	37
DA09x003-45-182F	33	34	32	.	30	32
JTN-5110	32	34	25	.	27	29
K12-1355	33	33	28	.	26	30
NCC09-200719-1-37	30	32	28	.	26	29
R10-197RY	34	38	31	.	29	33
R11-262	35	36	30	.	29	33
R12-1622	35	35	33	.	27	33
R12-2079	37	38	38	.	35	37
R12-2142	35	36	32	.	30	33
S11-16653	35	35	29	.	25	31
S11-17025	33	33	30	.	27	31
S11-20124	39	39	29	.	33	35
S11-20195	34	36	30	.	29	33
S12-11150	37	36	31	.	30	34
TN11-5102	31	39	31	.	26	32
TN11-5104	33	39	31	.	26	33
TN12-5716	33	41	34	.	32	35
V08-1924	36	35	32	.	32	34
V10-0262	34	30	31	.	26	30
V10-1687	27	29	24	.	23	26
Mean	34	36	31	.	28	.

TABLE 42 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
OSAGE	13	25	27	22
ELLIS	11	24	28	21
JTN-5203	13	26	28	22
UA 5612	13	35	33	27
AG 5332RR2Y	30	32	30	30
AG 5534RR2	17	28	32	26
AG 5335	30	33	35	32
DA09x003-45-182F	14	31	29	25
JTN-5110	12	30	32	25
K12-1355	11	28	29	23
NCC09-200719-1-37	14	28	29	24
R10-197RY	13	29	30	24
R11-262	13	31	29	24
R12-1622	15	31	31	26
R12-2079	15	35	33	28
R12-2142	15	31	32	26
S11-16653	12	30	28	23
S11-17025	16	29	30	25
S11-20124	15	36	36	29
S11-20195	13	33	33	27
S12-11150	17	33	33	27
TN11-5102	12	30	31	24
TN11-5104	11	31	28	23
TN12-5716	12	33	32	26
V08-1924	14	36	32	27
V10-0262	13	27	28	23
V10-1687	10	26	27	21
Mean	15	30	31	.

TABLE 43 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
OSAGE	1.0	2.0	2.3	2.0	1.8
Ellis	1.2	2.7	3.0	2.0	2.2
JTN-5203	1.0	2.3	2.0	2.0	1.8
UA 5612	1.3	3.0	3.0	2.0	2.3
AG 5332RR2Y	2.0	3.3	3.0	2.3	2.7
AG 5534RR2	1.5	3.0	3.0	2.0	2.4
AG 5335	1.5	3.0	2.7	2.7	2.5
DA09x003-45-182F	2.0	3.0	3.0	2.3	2.6
JTN-5110	1.0	2.7	3.0	2.0	2.2
K12-1355	1.8	3.0	3.0	2.0	2.5
NCC09-200719-1-37	1.5	2.0	2.7	2.0	2.0
R10-197RY	1.0	2.7	2.3	2.0	2.0
R11-262	1.5	3.0	3.0	2.0	2.4
R12-1622	1.2	2.7	2.7	2.0	2.1
R12-2079	2.0	3.0	3.0	2.0	2.5
R12-2142	1.5	3.0	3.0	2.0	2.4
S11-16653	2.0	3.0	3.0	2.0	2.5
S11-17025	1.3	2.7	3.0	2.0	2.3
S11-20124	2.2	3.0	4.0	2.7	3.0
S11-20195	1.8	3.0	4.0	2.0	2.7
S12-11150	1.5	3.0	2.7	2.0	2.3
TN11-5102	1.7	3.0	3.0	2.0	2.4
TN11-5104	1.5	2.7	3.0	2.0	2.3
TN12-5716	2.0	3.0	3.0	2.0	2.5
V08-1924	2.7	3.0	4.0	2.3	3.0
V10-0262	1.7	3.0	3.0	2.0	2.4
V10-1687	1.0	3.0	3.0	2.0	2.3
Mean	1.6	2.8	3.0	2.1	.

TABLE 43 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

East

STRAIN/ VARIETY	Plymouth, NC	Suffolk, VA	Warsaw, VA	Area Mean
OSAGE	1.5	1.7	1.3	1.5
Ellis	1.5	3.2	1.4	2.1
JTN-5203	1.2	1.7	1.4	1.5
UA 5612	2.0	4.3	2.7	3.1
AG 5332RR2Y	3.0	1.8	1.6	2.0
AG 5534RR2	1.7	2.0	1.7	1.8
AG 5335	1.5	1.3	1.2	1.3
DA09x003-45-182F	2.0	3.3	1.8	2.4
JTN-5110	1.7	2.0	1.4	1.7
K12-1355	2.0	5.0	2.3	3.2
NCC09-200719-1-37	1.5	2.7	1.7	2.0
R10-197RY	1.5	2.7	1.3	1.9
R11-262	1.5	2.7	1.8	2.0
R12-1622	1.5	4.3	1.5	2.6
R12-2079	2.3	3.7	2.3	2.8
R12-2142	2.0	3.3	2.1	2.5
S11-16653	1.5	3.2	1.3	2.1
S11-17025	1.5	3.8	1.8	2.5
S11-20124	2.3	5.0	2.7	3.4
S11-20195	1.7	5.0	3.0	3.4
S12-11150	2.0	4.7	2.4	3.2
TN11-5102	1.5	4.3	1.4	2.5
TN11-5104	1.7	3.0	1.5	2.1
TN12-5716	2.0	2.7	2.1	2.3
V08-1924	1.7	5.0	2.7	3.3
V10-0262	1.2	1.3	1.8	1.5
V10-1687	1.5	2.0	1.7	1.8
Mean	1.8	3.2	1.8	.

TABLE 43 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

South

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
OSAGE	1.0	1.3	1.3	.	1.0	1.2
Ellis	1.0	2.3	1.3	.	1.0	1.4
JTN-5203	1.0	4.0	1.7	.	1.0	1.9
UA 5612	2.0	4.0	3.0	.	1.0	2.5
AG 5332RR2Y	2.0	3.3	3.3	.	1.0	2.4
AG 5534RR2	1.7	2.3	2.7	.	1.0	1.9
AG 5335	1.0	3.0	2.0	.	1.0	1.8
DA09x003-45-182F	2.0	4.7	3.0	.	1.0	2.7
JTN-5110	1.3	4.0	2.3	.	1.0	2.2
K12-1355	1.7	5.0	2.3	.	1.0	2.5
NCC09-200719-1-37	1.7	3.0	2.0	.	1.0	1.9
R10-197RY	1.0	3.3	1.7	.	1.0	1.8
R11-262	1.0	3.0	3.0	.	1.0	2.0
R12-1622	1.0	3.3	2.0	.	1.0	1.8
R12-2079	1.3	4.0	2.7	.	1.0	2.3
R12-2142	1.0	3.7	3.0	.	1.0	2.2
S11-16653	1.3	3.3	2.7	.	1.0	2.1
S11-17025	1.7	4.7	3.3	.	1.0	2.7
S11-20124	2.3	4.0	4.0	.	1.0	2.8
S11-20195	2.0	4.0	4.7	.	1.0	2.9
S12-11150	1.7	4.0	3.0	.	1.0	2.4
TN11-5102	1.0	3.0	2.0	.	1.0	1.8
TN11-5104	1.0	2.7	2.0	.	1.0	1.7
TN12-5716	1.0	3.3	2.3	.	1.0	1.9
V08-1924	2.7	4.7	4.3	.	1.0	3.2
V10-0262	1.7	3.0	2.0	.	1.0	1.9
V10-1687	1.7	3.3	2.0	.	1.0	2.0
Mean	1.5	3.5	2.6	.	1.0	.

TABLE 43 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
OSAGE	1.0	1.0	1.0	1.0
Ellis	1.0	1.0	1.0	1.0
JTN-5203	1.0	1.0	1.0	1.0
UA 5612	1.0	1.3	1.3	1.2
AG 5332RR2Y	2.0	1.0	1.0	1.3
AG 5534RR2	1.0	1.3	1.0	1.1
AG 5335	1.7	1.3	1.3	1.4
DA09x003-45-182F	1.0	1.3	1.0	1.1
JTN-5110	1.0	1.3	1.3	1.2
K12-1355	1.0	1.7	1.0	1.2
NCC09-200719-1-37	1.0	1.0	1.3	1.1
R10-197RY	1.0	1.0	1.0	1.0
R11-262	1.0	1.3	1.0	1.1
R12-1622	1.0	1.0	1.0	1.0
R12-2079	1.0	1.0	1.3	1.1
R12-2142	1.0	1.0	1.0	1.0
S11-16653	1.0	1.7	1.7	1.4
S11-17025	1.0	1.0	2.0	1.3
S11-20124	1.0	3.0	3.0	2.3
S11-20195	1.0	2.7	3.0	2.2
S12-11150	1.0	1.3	1.0	1.1
TN11-5102	1.0	1.3	1.0	1.1
TN11-5104	1.0	1.0	1.0	1.0
TN12-5716	1.0	1.0	1.0	1.0
V08-1924	1.0	2.3	2.3	1.9
V10-0262	1.0	1.0	1.0	1.0
V10-1687	1.0	1.0	1.0	1.0
Mean	1.1	1.3	1.3	.

TABLE 44 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Portageville, MO(A)	Portageville, MO(B)	Stoneville, MS	Area Mean
OSAGE	1.0	3.0	3.0	2.0	2.6
Ellis	1.0	3.0	3.0	2.0	2.6
JTN-5203	1.0	3.0	3.0	2.0	2.6
UA 5612	2.0	3.0	3.0	2.0	2.8
AG 5332RR2Y	2.0	3.3	3.0	2.0	2.9
AG 5534RR2	2.0	3.0	3.0	2.0	2.8
AG 5335	1.0	3.0	3.0	2.0	2.6
DA09x003-45-182F	1.0	3.0	3.0	2.0	2.6
JTN-5110	2.0	3.0	3.0	2.0	2.8
K12-1355	1.0	2.7	3.0	2.0	2.5
NCC09-200719-1-37	1.0	3.0	3.0	2.0	2.6
R10-197RY	1.0	3.0	3.0	2.0	2.6
R11-262	2.0	3.0	3.0	2.0	2.8
R12-1622	1.0	3.0	3.0	2.0	2.6
R12-2079	1.0	3.0	3.0	2.0	2.6
R12-2142	1.0	2.3	3.0	2.0	2.4
S11-16653	2.0	3.0	2.0	2.0	2.4
S11-17025	1.0	3.0	3.0	2.0	2.6
S11-20124	2.0	2.0	3.0	2.0	2.4
S11-20195	2.0	2.0	3.0	2.0	2.4
S12-11150	1.0	3.0	2.0	2.0	2.3
TN11-5102	2.0	3.0	2.3	2.0	2.5
TN11-5104	1.0	2.3	3.0	2.0	2.4
TN12-5716	1.0	3.0	3.0	2.0	2.6
V08-1924	2.0	2.7	3.0	2.0	2.6
V10-0262	1.0	3.0	2.0	2.0	2.3
V10-1687	1.0	3.0	3.0	2.0	2.6
Mean	1.4	2.9	2.9	2.0	.

TABLE 44 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

East

STRAIN/ VARIETY	Plymouth, NC	Suffolk, VA	Warsaw, VA	Area Mean
OSAGE	4.5	2.0	1.5	2.1
Ellis	4.5	2.0	1.9	2.3
JTN-5203	5.0	3.3	1.7	2.9
UA 5612	4.0	3.0	1.7	2.6
AG 5332RR2Y	5.0	3.0	2.0	2.9
AG 5534RR2	3.0	2.0	1.3	1.8
AG 5335	5.0	3.7	2.1	3.2
DA09x003-45-182F	4.5	3.0	1.9	2.7
JTN-5110	5.0	4.0	1.8	3.2
K12-1355	4.0	3.0	1.5	2.5
NCC09-200719-1-37	4.5	2.7	1.7	2.5
R10-197RY	3.5	2.0	1.5	2.0
R11-262	5.0	3.3	1.9	2.9
R12-1622	3.5	2.0	1.6	2.0
R12-2079	2.0	2.0	1.3	1.7
R12-2142	3.0	2.0	1.3	1.8
S11-16653	3.5	3.0	1.5	2.4
S11-17025	4.5	3.7	1.7	2.9
S11-20124	3.5	2.4	1.7	2.3
S11-20195	5.0	3.3	2.1	3.0
S12-11150	4.0	3.1	1.4	2.4
TN11-5102	3.0	3.0	1.7	2.4
TN11-5104	3.5	2.0	1.6	2.0
TN12-5716	2.0	2.0	1.2	1.7
V08-1924	4.5	3.7	1.7	2.9
V10-0262	5.0	2.7	1.8	2.6
V10-1687	4.5	4.0	1.5	3.0
Mean	4.0	2.8	1.6	.

TABLE 44 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

South

STRAIN/ VARIETY	Belle Mina, AL	Jackson, TN	Knoxville, TN	Orange, VA	Springfield, TN	Area Mean
OSAGE	1.0	1.7	1.3	1.0	1.3	1.3
Ellis	1.0	2.0	1.0	1.3	1.0	1.3
JTN-5203	1.0	2.7	1.0	1.0	1.0	1.3
UA 5612	1.0	2.0	2.0	1.0	1.7	1.5
AG 5332RR2Y	1.2	2.0	2.0	1.0	2.3	1.7
AG 5534RR2	1.2	2.0	2.3	1.0	1.7	1.6
AG 5335	1.5	2.0	2.0	1.0	2.3	1.8
DA09x003-45-182F	1.0	2.0	2.0	1.0	1.3	1.5
JTN-5110	1.0	3.0	1.3	1.0	1.0	1.5
K12-1355	1.0	2.0	1.0	1.0	1.3	1.3
NCC09-200719-1-37	1.0	2.0	2.0	1.0	1.7	1.5
R10-197RY	1.0	1.7	1.3	1.0	1.7	1.3
R11-262	1.0	2.0	2.0	1.0	2.3	1.7
R12-1622	1.0	1.7	1.7	1.0	2.3	1.5
R12-2079	1.0	2.0	1.0	1.0	2.0	1.4
R12-2142	1.0	1.7	1.7	1.0	3.0	1.7
S11-16653	1.0	1.7	1.0	1.0	1.3	1.2
S11-17025	1.0	2.0	1.7	1.0	1.7	1.5
S11-20124	1.0	2.0	2.0	1.0	1.3	1.5
S11-20195	1.5	2.3	1.7	1.0	2.3	1.8
S12-11150	1.0	2.0	1.0	1.0	1.0	1.2
TN11-5102	1.0	1.3	1.0	1.0	1.3	1.1
TN11-5104	1.0	2.0	1.0	1.0	1.3	1.3
TN12-5716	1.0	1.3	1.0	1.0	3.0	1.5
V08-1924	1.0	3.0	2.0	1.0	2.3	1.9
V10-0262	1.0	2.0	1.0	1.0	3.3	1.7
V10-1687	1.0	2.7	2.0	1.0	2.3	1.8
Mean	1.1	2.0	1.5	1.0	1.8	.

TABLE 44 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP V FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	McCune, KS	Pittsburg, KS	Area Mean
OSAGE	1.5	2.0	2.0	1.8
Ellis	1.0	2.0	2.0	1.7
JTN-5203	1.5	2.0	2.0	1.8
UA 5612	1.5	3.0	2.0	2.2
AG 5332RR2Y	1.0	3.0	2.0	2.0
AG 5534RR2	1.0	3.0	2.0	2.0
AG 5335	1.5	2.0	1.0	1.5
DA09x003-45-182F	2.0	1.0	2.0	1.7
JTN-5110	1.5	2.0	3.0	2.2
K12-1355	1.5	2.0	2.0	1.8
NCC09-200719-1-37	1.0	3.0	2.0	2.0
R10-197RY	1.5	3.0	2.0	2.2
R11-262	1.0	3.0	2.0	2.0
R12-1622	1.0	3.0	2.0	2.0
R12-2079	3.0	2.0	1.0	2.0
R12-2142	1.5	2.0	2.0	1.8
S11-16653	1.0	2.0	2.0	1.7
S11-17025	1.5	3.0	2.0	2.2
S11-20124	2.0	2.0	2.0	2.0
S11-20195	1.5	2.0	2.0	1.8
S12-11150	1.0	2.0	2.0	1.7
TN11-5102	1.0	3.0	1.0	1.7
TN11-5104	2.0	3.0	2.0	2.3
TN12-5716	2.5	2.0	2.0	2.2
V08-1924	1.5	2.0	3.0	2.2
V10-0262	2.0	2.0	3.0	2.3
V10-1687	2.0	3.0	3.0	2.7
Mean	1.5	2.4	2.0	.

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TABLE 45 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	OSAGE	Hartz 5545 x KS4895		Conv	
2	Ellis	Commercial check		Conv	
3	JTN-5203	R93-171 x Anand	F16	Conv	SCN, FLS
4	UA 5612	Commercial check		Conv	
5	AG 5332RR2Y	Commercial check		RR2	
6	AG 5534RR2	Commercial check		RR2	
7	AG 5335	Commercial check		RR2	
8	DA08x41-177F	DB04-10997 x DB00-087		Conv	
9	DA08x41-193F	DB04-10997 x DB00-087		Conv	
10	DA09x39-17F	R01-976 x DB00-087		Conv	
11	DA09x39-26F	R01-976 x DB00-087		Conv	
12	DA09x40-40F	DB04-10836 x Freedom		Conv	
13	DS422-4	5601T x L87-0482	F9	Conv	SR
14	K13-1763	5002T / DS-880	F4	Conv	
15	K13-1777	S05-11482 / KS5004N	F4	Conv	
16	K13-1786	KS5004N / R04-357	F4	Conv	
17	K13-1809	KS5004N / R04-357	F4	Conv	
18	K13-1830	DS-880 / R04-357	F4	Conv	
19	MD99-6626	V 91-2935 x Md 92-5769	F4	Conv	
20	N11-7055	NC-Roy x LD00-3309	F4	Conv	
21	N11-10769	NC-Roy x PI 612717	F4	Conv	50% PI 612717
22	R10-563	5601T x R96-1559	F5	Conv	
23	R10-1261	R99-2512 x R01-1017	F5	Conv	
24	R10-5086	Osage x R99-1613F	F3	Conv	Diversity 25%-PI 290126B
25	R11-357RY	Osage x RR2Y	F3	RR2	
26	R12-6529RR	R01-976 x S04-21273	F5	RR1	
27	R12-7448RY	R06-4222 x UA 4805 [R2Y1 (F2)]	F3	RR2	
28	RN06-32)7b	Dillon x PI 605891A	F6	Conv	SR
29	S12-4718	S05-11482 x S09-318 F1	F5	Conv	Diversity, SCN
30	S13-1805	LD07-3419 x S05-11482	F5	Conv	SCN
31	S13-8912	S07-2680 x S09-9937	F5	Conv	SCN, STS
32	S13-9205	S025-11482 x P4920	F5	Conv	
33	S13-13342	S09-10857 x S08-9727RR	F5	RR1	STS
34	S13-14616	S08-17361 x S08-9727RR	F5	RR1	Diversity
35	TN12-5507R2	TN02-226 x MON RR2Y		RR2	
36	TN13-4705R2	5002T x TN09-46,665		RR2	
37	TN13-5002	5601T x TN03-349		Conv	
38	TN13-5501R2	5002T x TN09-46,665		RR2	
39	TN14-5036	Caviness x Anand		Conv	
40	TN56Cx-1282	5601T x TN09-239		Conv	low phytate; >50% protein meal
41	V11-0119	V01-2245 x R04-198	F4	Conv	
42	V11-0730	V03-7833 x V02-8659	F4	Conv	
43	V11-3485	V98-2711 x Schillinger 495	F4	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 FOR STRAIN/VARIETY GROWN IN PRELIMINARY TEST V FOR YEAR 2015

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SIZE	% PROTEIN†	% OIL †	SCN Cyst Score (1-5 Scale)‡			SC RATING	SC SCORE	FL COLOR	PUB. COLOR	POD COLOR
											Race 2	Race 3	Race 5					
OSAGE	56.7	16	21	0	1.4	28	1.8	12.6	37.8	18.1	5	4	2	MR	2	P	G	T
Ellis	56.6	18	22	-1	1.5	27	2.0	12.6	35.5	18.5	5	4	4	R	1	W	G	T
JTN-5203	56.7	15	20	-3	1.6	27	2.1	12.8	35.8	18.8	1	1	1	SS	3	W	G	T
UA 5612	57.7	14	19	3	2.4	34	1.9	13.1	35.8	18.6	5	4	3	R	1	P	G	T
AG 5332RR2Y	63.9	1	8	-1	2.4	37	2.0	14.5	36.0	18.5	5	4	3	MR	2	P	T	T
AG 5534RR2	56.6	17	21	3	2.0	33	2.1	15.4	35.3	19.5	5	5	4	R	1	W	T	T
AG 5335	59.9	4	15	0	2.0	40	2.1	15.6	36.4	19.0	5	3	3	R	1	W	G	T
DA08x41-177F	53.7	35	27	-3	1.7	31	2.0	12.9	36.8	18.4	5	1	3	R	1	P	T	T
DA08x41-193F	57.7	12	19	-3	2.0	32	1.8	13.1	36.6	18.4	5	1	4	R	1	P	T	T
DA09x39-17F	59.2	6	16	1	1.9	30	2.1	15.0	36.1	18.4	4	4	4	S	5	P	G	T
DA09x39-26F	58.1	10	20	-2	2.2	32	2.0	13.9	34.9	18.8	4	5	5	S	5	P	S	T
DA09x40-40F	55.9	26	21	1	3.2	37	2.0	14.0	37.2	18.2	5	5	5	R	1	P	T	T
DS422-4	53.0	36	28	-1	2.1	30	1.8	15.8	37.9	18.4	4	5	4	R	1	W	G	T
K13-1763	53.7	34	26	-3	2.2	28	2.1	15.0	37.1	19.1	4	3	3	SS	3	W	T	T
K13-1777	56.5	19	21	-6	2.0	28	2.2	14.2	35.8	19.7	3	1	1	SS	3	W	T	T
K13-1786	54.6	30	25	-2	2.5	32	2.0	13.3	35.4	19.2	4	4	5	R	1	S	G	T
K13-1809	55.9	27	22	0	2.4	31	2.0	13.1	35.3	18.9	4	4	4	SS	3	P	G	T
K13-1830	58.7	7	14	0	1.7	27	2.1	12.9	35.2	18.6	4	3	3	MS	4	P	G	T
MD99-6626	58.0	11	17	-1	1.7	26	2.4	15.9	35.2	19.3	4	5	5	R	1	P	T	T
N11-7055	49.7	40	30	4	2.6	27	1.8	16.6	36.6	18.5	5	4	5	R	1	P	G	T
N11-10769	52.5	37	24	3	1.9	30	2.4	13.4	37.0	18.1	4	3	5	R	1	W	G	Br
R10-563	54.2	32	26	3	2.5	33	2.0	12.5	35.8	18.3	4	4	5	MS	4	S	G	T
R10-1261	57.7	13	20	-2	2.3	33	2.0	13.7	35.8	18.4	4	5	5	S	5	S	G	T
R10-5086	54.7	29	25	4	2.1	30	1.9	13.6	37.0	18.5	4	4	4	R	1	P	G	T
R11-357RY	56.2	22	22	2	1.8	31	1.8	13.7	37.3	18.3	4	4	3	R	1	P	G	T
R12-6529RR	56.3	21	21	3	2.7	35	2.2	15.2	35.0	19.4	4	3	5	R	1	P	T	T
R12-7448RY	54.6	31	25	7	2.6	36	2.1	12.1	34.9	18.2	5	5	4	R	1	P	G	T
RN06-32)7b	36.9	43	43	-8	3.2	35	2.1	12.5	37.7	17.9	5	5	5	MS	4	W	T	Br
S12-4718	62.8	2	9	-1	1.7	29	2.0	15.5	35.4	19.0	3	4	5	R	1	W	Lt	T
S13-1805	61.4	3	10	-3	2.2	29	2.3	15.0	35.7	19.1	4	2	2	MS	4	W	T	T
S13-8912	59.9	5	14	0	2.7	34	2.1	13.3	37.2	18.4	4	4	5	R	1	W	T	T
S13-9205	51.5	38	31	4	3.0	33	1.8	15.0	34.4	18.9	4	1	3	R	1	W	G	T
S13-13342	56.3	20	22	2	2.4	39	1.9	16.1	36.1	19.2	5	5	5	R	1	W	T	T
S13-14616	58.3	9	17	4	2.2	40	2.0	16.5	34.8	19.5	3	5	4	R	1	W	T	T
TN12-5507R2	55.6	28	22	-2	2.1	40	2.0	13.1	33.8	19.1	1	2	1	MS	4	P	G	T
TN13-4705R2	54.0	33	24	-1	2.2	32	2.2	15.7	36.5	18.8	5	5	4	R	1	P	T	T
TN13-5002	50.2	39	31	-1	1.6	26	1.9	17.3	38.2	17.9	4	4	4	MS	4	W	G	Br
TN13-5501R2	49.4	41	32	-1	1.6	27	1.9	13.9	35.4	19.4	4	5	4	R	1	W	T	T
TN14-5036	56.0	25	23	-2	1.7	28	1.9	13.3	35.9	19.0	1	2	1	R	1	W	G	T
TN56Cx-1282	46.9	42	39	-2	1.6	28	2.1	16.4	37.3	17.5	5	5	5	R	1	W	G	T
V11-0119	56.2	23	21	-3	1.6	29	2.1	13.1	37.2	18.5	5	5	4	R	1	W	G	Br
V11-0730	58.5	8	16	-5	1.6	25	2.4	13.6	36.2	19.6	5	3	5	SS	3	W	T	T
V11-3485	56.1	24	22	0	1.9	29	2.4	14.6	36.5	18.2	5	4	5	R	1	P	T	T
Mean	55.6	.	.	0	2.1	31	2.0	14.2	36.1	18.7	.	.	.	.	.	.	.	.
LSD(0.05)	5.7	.	.	2	.	3	0.5	1.1	0.7	0.4	.	.	.	.	.	.	.	.
CV(%)	12.9	.	.	764	.	11	24.2	7.3	1.6	2.1	.	.	.	.	.	.	.	.

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

‡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 7, and HG Type 2.5.7, respectively.

TABLE 47 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	44.7	70.3	51.4	57.9	48.5	35.6	66.0	78.8	56.7
Ellis	50.4	74.4	49.9	60.5	40.4	41.2	63.2	72.5	56.6
JTN-5203	52.1	61.5	49.9	60.2	54.8	56.1	62.8	61.3	56.7
UA 5612	46.2	70.5	51.0	60.5	48.4	37.5	68.6	78.9	57.7
AG 5332RR2Y	49.6	83.4	59.1	72.3	52.6	44.9	68.0	81.5	63.9
AG 5534RR2	54.1	77.2	46.7	69.3	48.6	34.8	61.0	63.6	56.6
AG 5335	53.4	77.9	58.8	59.2	48.3	50.2	60.1	71.6	59.9
DA08x41-177F	46.9	66.5	33.5	59.2	43.1	42.0	61.7	76.4	53.7
DA08x41-193F	49.6	66.6	50.6	55.3	50.7	49.0	63.1	76.8	57.7
DA09x39-17F	51.1	73.7	45.6	65.7	49.0	39.1	67.9	78.5	59.2
DA09x39-26F	51.6	82.7	51.1	57.7	48.5	38.8	57.1	77.0	58.1
DA09x40-40F	55.4	73.5	44.9	54.2	46.5	36.4	66.6	70.1	55.9
DS422-4	51.2	64.8	45.3	50.7	47.0	41.1	57.6	66.7	53.0
K13-1763	50.1	59.6	53.4	54.6	42.9	46.1	63.9	58.8	53.7
K13-1777	52.3	71.0	49.1	63.8	44.0	44.4	63.6	63.8	56.5
K13-1786	51.1	63.2	46.8	53.5	49.0	36.3	64.5	72.6	54.6
K13-1809	48.3	65.4	49.3	65.5	53.3	36.7	66.9	61.7	55.9
K13-1830	53.2	70.3	52.6	68.2	50.0	46.7	64.2	64.6	58.7
MD99-6626	54.4	72.5	59.1	66.0	43.5	40.9	63.8	63.8	58.0
N11-7055	53.8	53.8	46.3	56.8	50.6	33.4	58.6	44.7	49.7
N11-10769	49.2	64.1	52.4	60.8	46.9	41.9	65.4	39.0	52.5
R10-563	44.4	67.8	52.7	64.4	44.0	41.3	58.4	60.6	54.2
R10-1261	45.2	75.0	48.5	60.5	51.6	33.8	63.8	83.4	57.7
R10-5086	50.8	65.4	42.4	51.6	48.9	38.2	65.5	74.5	54.7
R11-357RY	49.9	76.0	54.4	59.6	41.6	33.6	66.0	68.7	56.2
R12-6529RR	51.2	70.9	51.7	52.2	52.6	36.1	61.6	73.6	56.3
R12-7448RY	51.5	65.3	50.9	67.4	42.0	39.8	50.1	69.5	54.6
RN06-32)7b	42.2	54.5	22.8	35.7	39.0	21.9	45.5	34.0	36.9
S12-4718	48.6	85.2	55.7	61.7	54.4	45.8	69.7	81.4	62.8
S13-1805	52.2	73.4	56.0	65.8	52.3	46.5	63.7	81.5	61.4
S13-8912	46.6	71.1	63.8	67.3	54.0	45.7	65.6	64.9	59.9
S13-9205	46.4	64.1	40.5	48.2	52.4	39.4	57.0	63.8	51.5
S13-13342	53.0	79.1	46.9	47.0	48.9	35.3	61.8	78.5	56.3
S13-14616	57.1	67.2	48.9	65.3	48.2	34.4	68.3	77.2	58.3
TN12-5507R2	52.4	71.0	44.7	50.0	52.4	48.3	60.2	65.9	55.6
TN13-4705R2	53.0	69.2	39.6	46.7	54.2	41.7	61.4	66.1	54.0
TN13-5002	49.1	57.7	51.8	44.0	44.4	33.8	65.8	55.1	50.2
TN13-5501R2	51.6	53.2	43.3	50.8	45.1	37.2	50.2	63.9	49.4
TN14-5036	49.4	66.9	57.9	50.1	43.0	52.9	65.6	62.6	56.0
TN56Cx-1282	43.4	54.5	44.2	44.1	41.2	33.6	63.0	51.5	46.9
V11-0119	50.9	73.9	55.2	47.5	48.0	45.8	64.7	63.5	56.2
V11-0730	58.5	63.2	65.1	55.9	50.1	39.7	67.9	67.9	58.5
V11-3485	59.4	65.7	51.4	52.8	46.9	40.1	62.3	70.3	56.1
Mean	50.6	68.7	49.7	57.2	48.0	40.4	62.6	67.4	55.6
LSD(0.05)	13.0	15.3	11.9	15.3	7.5	6.2	12.6	11.1	5.7
CV(%)	12.7	10.8	11.7	13.2	7.7	7.6	9.9	8.2	12.9

TABLE 48 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	17.8	18.3	.	18.8	17.1	.	18.2	18.6	18.1
Ellis	18.3	17.9	.	19.1	17.7	.	18.6	19.2	18.5
JTN-5203	18.9	17.8	.	19.2	18.4	.	19.1	19.6	18.8
UA 5612	18.6	18.4	.	19.3	17.9	.	18.2	19.1	18.6
AG 5332RR2Y	19.0	17.9	.	19.2	18.2	.	18.2	18.5	18.5
AG 5534RR2	20.0	18.8	.	20.4	18.5	.	19.3	20.2	19.5
AG 5335	19.2	18.3	.	19.9	18.5	.	18.9	19.4	19.0
DA08x41-177F	18.6	18.0	.	19.2	17.4	.	18.2	19.2	18.4
DA08x41-193F	18.7	17.6	.	19.2	17.8	.	18.1	19.1	18.4
DA09x39-17F	18.7	18.1	.	19.1	17.2	.	18.1	19.1	18.4
DA09x39-26F	.	18.9	.	19.4	17.8	.	18.6	19.1	18.8
DA09x40-40F	18.2	18.0	.	19.2	17.4	.	18.2	18.4	18.2
DS422-4	19.2	17.6	.	19.4	17.5	.	18.2	18.6	18.4
K13-1763	19.3	18.1	.	20.1	18.1	.	19.1	19.9	19.1
K13-1777	20.0	18.5	.	20.5	18.4	.	19.8	20.8	19.7
K13-1786	19.4	18.6	.	20.1	18.1	.	19.1	19.7	19.2
K13-1809	19.2	18.3	.	19.8	17.9	.	18.7	19.3	18.9
K13-1830	18.9	18.3	.	19.4	17.7	.	18.3	18.9	18.6
MD99-6626	19.4	19.2	.	19.9	18.7	.	19.0	19.4	19.3
N11-7055	18.2	18.2	.	19.4	18.0	.	17.9	19.4	18.5
N11-10769	.	15.8	.	19.3	18.0	.	17.7	19.6	18.1
R10-563	18.5	18.0	.	19.0	17.1	.	18.0	19.2	18.3
R10-1261	.	17.9	.	19.4	17.5	.	18.1	18.8	18.4
R10-5086	18.4	18.4	.	19.5	17.2	.	18.1	19.2	18.5
R11-357RY	18.0	18.8	.	19.3	17.0	.	17.7	19.1	18.3
R12-6529RR	19.8	18.2	.	20.3	18.4	.	19.1	20.8	19.4
R12-7448RY	18.4	18.4	.	19.2	17.0	.	17.6	18.9	18.2
RN06-32)7b	17.9	17.9	.	18.5	17.2	.	17.6	18.1	17.9
S12-4718	19.1	19.0	.	20.1	17.2	.	18.9	19.6	19.0
S13-1805	19.2	18.6	.	20.0	17.9	.	19.3	19.7	19.1
S13-8912	18.0	18.5	.	19.2	17.5	.	18.0	19.2	18.4
S13-9205	18.8	18.7	.	19.8	17.6	.	18.3	20.3	18.9
S13-13342	.	19.1	.	20.2	18.1	.	18.8	19.6	19.2
S13-14616	19.9	19.4	.	20.4	18.7	.	19.0	19.6	19.5
TN12-5507R2	.	19.5	.	20.0	17.9	.	18.7	19.2	19.1
TN13-4705R2	18.7	18.6	.	19.7	17.7	.	18.7	19.6	18.8
TN13-5002	18.2	17.6	.	18.9	16.8	.	17.8	18.3	17.9
TN13-5501R2	19.6	17.9	.	20.7	18.1	.	19.4	20.5	19.4
TN14-5036	18.8	18.4	.	19.9	18.2	.	19.3	19.5	19.0
TN56Cx-1282	18.0	15.6	.	19.1	16.4	.	17.4	18.4	17.5
V11-0119	18.8	17.9	.	19.5	17.5	.	18.2	19.0	18.5
V11-0730	20.1	19.2	.	20.5	18.5	.	19.4	19.7	19.6
V11-3485	18.7	18.1	.	19.4	16.1	.	17.7	19.1	18.2
Mean	18.9	18.2	.	19.6	17.7	.	18.5	19.3	.

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

TABLE 49 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	39.5	37.7	.	37.3	37.9	.	36.7	37.9	37.8
Ellis	36.6	36.2	.	35.1	35.4	.	34.6	35.3	35.5
JTN-5203	37.2	36.2	.	35.7	35.4	.	35.3	35.1	35.8
UA 5612	36.9	35.4	.	35.4	35.6	.	36.0	35.6	35.8
AG 5332RR2Y	35.9	37.1	.	35.2	36.0	.	35.5	36.0	36.0
AG 5534RR2	35.7	36.4	.	34.4	36.0	.	34.1	35.1	35.3
AG 5335	36.4	39.4	.	35.5	36.0	.	35.7	35.6	36.4
DA08x41-177F	37.7	38.0	.	36.2	35.9	.	36.2	36.5	36.8
DA08x41-193F	37.1	37.8	.	36.1	36.4	.	36.1	36.2	36.6
DA09x39-17F	35.9	37.1	.	36.4	36.1	.	35.7	35.3	36.1
DA09x39-26F	.	34.9	.	35.0	35.0	.	34.3	34.7	34.9
DA09x40-40F	38.1	37.7	.	36.5	36.9	.	36.7	37.0	37.2
DS422-4	37.6	38.8	.	37.5	38.0	.	37.3	38.0	37.9
K13-1763	37.8	38.5	.	35.8	37.2	.	36.1	37.3	37.1
K13-1777	36.8	36.8	.	34.9	35.8	.	34.9	35.5	35.8
K13-1786	35.4	35.7	.	35.0	35.4	.	35.3	35.7	35.4
K13-1809	35.6	35.8	.	35.0	35.1	.	34.7	35.7	35.3
K13-1830	35.7	34.9	.	35.0	35.4	.	35.2	34.9	35.2
MD99-6626	35.8	36.1	.	34.5	34.5	.	34.8	35.6	35.2
N11-7055	38.3	36.6	.	36.2	36.3	.	36.1	36.1	36.6
N11-10769	.	39.2	.	36.2	37.1	.	36.9	34.9	37.0
R10-563	36.7	36.2	.	35.5	36.8	.	35.3	34.5	35.8
R10-1261	.	36.5	.	35.1	35.7	.	35.4	35.4	35.8
R10-5086	38.1	37.8	.	36.3	37.4	.	36.3	36.0	37.0
R11-357RY	39.1	37.0	.	36.6	37.3	.	36.8	36.7	37.3
R12-6529RR	35.6	36.2	.	34.5	34.5	.	35.1	34.3	35.0
R12-7448RY	35.4	33.9	.	34.9	35.0	.	34.8	35.2	34.9
RN06-32)7b	38.6	37.4	.	37.6	37.3	.	37.7	37.5	37.7
S12-4718	37.0	35.5	.	34.8	36.1	.	34.0	35.1	35.4
S13-1805	36.5	36.5	.	35.3	35.6	.	35.0	35.3	35.7
S13-8912	38.2	36.8	.	37.4	36.7	.	36.8	37.3	37.2
S13-9205	34.9	34.8	.	34.4	34.2	.	34.3	33.8	34.4
S13-13342	.	36.9	.	34.8	36.2	.	35.8	36.1	36.1
S13-14616	34.7	35.2	.	34.2	34.5	.	34.8	35.2	34.8
TN12-5507R2	.	33.6	.	33.7	33.3	.	32.9	34.9	33.8
TN13-4705R2	38.1	37.3	.	35.3	36.3	.	35.5	36.3	36.5
TN13-5002	38.6	38.5	.	38.1	39.0	.	37.5	37.5	38.2
TN13-5501R2	36.7	36.6	.	34.5	34.8	.	34.6	35.1	35.4
TN14-5036	37.6	35.9	.	35.9	35.8	.	34.9	35.0	35.9
TN56Cx-1282	37.3	38.8	.	36.2	37.3	.	37.2	37.2	37.3
V11-0119	37.0	38.1	.	36.2	37.2	.	36.8	37.6	37.2
V11-0730	36.6	36.7	.	35.6	36.8	.	35.2	36.1	36.2
V11-3485	37.2	36.9	.	35.8	37.1	.	36.0	35.9	36.5
Mean	36.9	36.7	.	35.6	36.1	.	35.6	35.9	.

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

TABLE 50 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	13.0	12.1	.	13.2	12.2	12.3	13.2	12.0	12.6
Ellis	12.9	11.8	.	13.9	12.0	11.3	12.2	14.5	12.6
JTN-5203	14.8	9.9	.	14.0	12.9	12.5	13.5	12.3	12.8
UA 5612	12.6	11.9	.	13.9	12.0	16.5	12.8	12.4	13.1
AG 5332RR2Y	15.6	12.6	.	14.9	15.5	15.6	14.8	12.3	14.5
AG 5534RR2	15.7	14.2	.	16.6	16.1	15.9	13.7	15.6	15.4
AG 5335	15.6	16.5	.	14.8	16.4	15.7	15.9	14.1	15.6
DA08x41-177F	13.2	11.5	.	13.1	13.2	14.5	12.8	12.5	12.9
DA08x41-193F	13.9	11.4	.	13.0	13.2	15.8	12.6	12.1	13.1
DA09x39-17F	15.1	13.2	.	16.8	14.0	17.5	14.7	13.7	15.0
DA09x39-26F	15.7	13.0	.	15.6	13.8	12.5	13.4	13.6	13.9
DA09x40-40F	14.8	12.9	.	15.5	14.2	13.5	14.4	12.6	14.0
DS422-4	18.2	14.6	.	14.3	15.6	15.2	16.6	16.1	15.8
K13-1763	16.2	11.6	.	16.4	15.5	16.3	14.6	14.4	15.0
K13-1777	14.6	11.2	.	15.3	13.6	16.5	13.7	14.3	14.2
K13-1786	13.6	11.7	.	14.2	12.1	15.5	12.8	13.2	13.3
K13-1809	13.7	11.7	.	13.5	12.1	16.5	12.6	11.4	13.1
K13-1830	13.7	11.8	.	14.0	13.3	12.2	13.2	12.3	12.9
MD99-6626	16.4	14.9	.	17.4	13.6	15.9	16.4	16.5	15.9
N11-7055	16.2	14.0	.	18.3	16.1	19.6	17.0	15.3	16.6
N11-10769	14.4	10.4	.	14.7	13.6	13.7	14.0	12.8	13.4
R10-563	13.3	11.3	.	13.7	12.1	12.2	13.3	11.4	12.5
R10-1261	13.8	13.5	.	14.7	13.1	12.6	14.5	13.7	13.7
R10-5086	14.9	14.5	.	14.5	13.3	12.3	13.4	12.5	13.6
R11-357RY	13.1	14.0	.	13.5	12.1	16.8	13.6	12.9	13.7
R12-6529RR	17.2	12.6	.	15.8	15.3	14.3	16.3	14.9	15.2
R12-7448RY	13.8	11.1	.	12.6	11.5	12.1	13.0	10.9	12.1
RN06-32)7b	13.6	12.0	.	13.1	13.2	11.5	13.7	10.3	12.5
S12-4718	15.3	14.8	.	15.5	15.9	15.4	15.0	16.6	15.5
S13-1805	15.0	12.1	.	16.9	15.6	15.2	16.3	14.1	15.0
S13-8912	13.0	12.5	.	15.3	12.7	13.1	13.4	13.2	13.3
S13-9205	15.4	13.5	.	16.2	14.4	14.3	16.0	15.5	15.0
S13-13342	17.0	15.0	.	16.9	16.6	15.6	15.7	15.9	16.1
S13-14616	18.2	16.0	.	17.6	15.9	15.5	16.7	15.7	16.5
TN12-5507R2	14.2	12.7	.	13.3	13.7	13.7	13.1	11.3	13.1
TN13-4705R2	15.4	14.2	.	15.2	16.9	16.1	16.7	15.2	15.7
TN13-5002	19.0	15.2	.	18.2	17.7	16.5	17.4	17.1	17.3
TN13-5501R2	14.3	10.3	.	15.0	14.5	14.4	14.8	14.1	13.9
TN14-5036	14.5	12.2	.	13.9	12.9	13.5	13.7	12.7	13.3
TN56Cx-1282	18.3	11.4	.	17.2	16.3	16.6	16.4	18.5	16.4
V11-0119	13.0	12.2	.	13.6	12.7	11.8	13.6	14.6	13.1
V11-0730	14.1	13.2	.	13.5	13.0	13.5	14.3	13.5	13.6
V11-3485	15.2	14.6	.	14.5	15.4	12.7	15.2	14.6	14.6
Mean	14.9	12.8	.	15.0	14.1	14.5	14.4	13.8	.

TABLE 51 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	10/9	9/28	10/14	9/29	.	.	10/14	9/24	10/5
Ellis	0	-3	1	-6	.	.	-1	0	-1
JTN-5203	4	-7	0	-6	.	.	-1	-5	-3
UA 5612	2	3	3	3	.	.	3	4	3
AG 5332RR2Y	0	1	2	-3	.	.	1	-4	-1
AG 5534RR2	4	3	9	2	.	.	3	0	3
AG 5335	0	1	1	-3	.	.	2	-3	0
DA08x41-177F	-2	-3	-2	-6	.	.	-2	-5	-3
DA08x41-193F	0	-1	-3	-6	.	.	-2	-5	-3
DA09x39-17F	2	0	0	1	.	.	2	0	1
DA09x39-26F	0	-1	-2	-3	.	.	-3	-3	-2
DA09x40-40F	2	1	2	0	.	.	1	0	1
DS422-4	2	0	-2	-6	.	.	1	0	-1
K13-1763	0	-7	-1	-4	.	.	-1	-4	-3
K13-1777	-2	-11	-2	-6	.	.	-4	-10	-6
K13-1786	0	-3	-2	-6	.	.	1	0	-2
K13-1809	2	-3	2	0	.	.	3	0	0
K13-1830	0	0	1	-1	.	.	0	0	0
MD99-6626	0	-3	2	-2	.	.	0	0	-1
N11-7055	2	1	11	1	.	.	6	2	4
N11-10769	2	3	3	1	.	.	6	2	3
R10-563	4	3	6	1	.	.	5	1	3
R10-1261	0	-1	-1	-4	.	.	0	-4	-2
R10-5086	6	1	8	1	.	.	6	1	4
R11-357RY	4	1	3	2	.	.	6	0	2
R12-6529RR	4	2	9	1	.	.	3	0	3
R12-7448RY	9	10	7	5	.	.	8	4	7
RN06-32)7b	-4	-11	-5	-7	.	.	-6	-13	-8
S12-4718	0	-4	2	-2	.	.	0	0	-1
S13-1805	-2	-7	0	-4	.	.	-1	-5	-3
S13-8912	0	0	1	0	.	.	1	-4	0
S13-9205	7	4	6	1	.	.	5	2	4
S13-13342	2	2	7	0	.	.	0	2	2
S13-14616	6	3	9	-1	.	.	5	1	4
TN12-5507R2	0	1	-1	-6	.	.	-1	-7	-2
TN13-4705R2	0	1	-1	-2	.	.	0	-7	-1
TN13-5002	0	-4	6	-5	.	.	1	-4	-1
TN13-5501R2	0	1	-1	-3	.	.	0	0	-1
TN14-5036	0	-5	0	-3	.	.	-1	-5	-2
TN56Cx-1282	0	-5	1	-6	.	.	0	0	-2
V11-0119	-2	-1	-1	-4	.	.	-1	-6	-3
V11-0730	-4	-10	-2	-7	.	.	-3	-7	-5
V11-3485	2	1	3	-5	.	.	3	-6	0
Mean	1	-1	2	-2	.	.	1	-2	.

TABLE 52 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	28	27	32	27	24	28	32	26	28
Ellis	27	27	32	25	27	27	33	18	27
JTN-5203	30	25	28	26	26	29	35	20	27
UA 5612	35	31	39	28	33	35	39	31	34
AG 5332RR2Y	40	43	46	36	32	31	39	34	37
AG 5534RR2	37	34	40	31	28	30	36	31	33
AG 5335	42	41	46	42	33	35	40	39	40
DA08x41-177F	34	29	30	31	29	29	36	29	31
DA08x41-193F	32	30	36	31	32	30	36	32	32
DA09x39-17F	29	24	33	29	29	30	37	28	30
DA09x39-26F	36	29	29	31	34	31	35	32	32
DA09x40-40F	37	34	45	29	34	38	39	40	37
DS422-4	33	25	32	27	30	29	36	29	30
K13-1763	29	23	33	24	29	29	33	24	28
K13-1777	30	24	32	30	25	28	32	21	28
K13-1786	34	28	37	29	34	31	39	29	32
K13-1809	36	28	39	27	28	33	37	23	31
K13-1830	32	23	30	27	27	26	32	26	27
MD99-6626	29	25	27	29	24	24	32	20	26
N11-7055	31	30	33	24	29	24	35	16	27
N11-10769	34	31	37	25	34	29	36	16	30
R10-563	36	31	39	31	32	30	37	32	33
R10-1261	31	30	35	34	36	34	36	27	33
R10-5086	30	28	35	27	26	28	39	29	30
R11-357RY	30	29	38	29	29	28	35	28	31
R12-6529RR	41	34	40	29	37	34	36	35	35
R12-7448RY	37	30	43	35	34	36	37	35	36
RN06-32)7b	41	26	36	34	34	32	39	37	35
S12-4718	27	31	30	27	30	30	35	27	29
S13-1805	29	28	31	32	31	29	34	24	29
S13-8912	35	31	38	29	36	34	38	30	34
S13-9205	32	32	40	28	33	34	37	30	33
S13-13342	39	39	44	36	33	31	38	49	39
S13-14616	44	41	48	36	34	34	39	47	40
TN12-5507R2	43	44	39	41	36	35	39	46	40
TN13-4705R2	32	30	35	31	33	32	37	29	32
TN13-5002	27	30	30	26	27	25	32	15	26
TN13-5501R2	29	22	33	27	26	28	30	24	27
TN14-5036	30	24	30	29	28	30	32	20	28
TN56Cx-1282	31	27	32	26	29	26	34	22	28
V11-0119	32	30	30	28	25	28	34	25	29
V11-0730	32	23	29	24	22	26	30	18	25
V11-3485	32	26	32	32	25	29	35	20	29
Mean	33	29	35	30	30	30	35	28	.

TABLE 53 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	1.0	1.5	1.8	1.0	1.0	1.0	2.0	2.0	1.4
Ellis	1.0	1.5	1.8	1.0	1.0	1.0	3.0	2.0	1.5
JTN-5203	2.5	1.0	1.5	1.0	1.0	1.0	2.5	2.0	1.6
UA 5612	2.5	2.0	2.3	2.5	2.0	2.0	3.0	3.0	2.4
AG 5332RR2Y	3.0	3.0	2.0	3.0	1.0	1.0	3.0	3.0	2.4
AG 5534RR2	2.0	2.0	1.8	2.0	1.0	1.0	3.0	3.0	2.0
AG 5335	2.5	2.0	1.5	1.5	1.5	1.0	3.0	3.0	2.0
DA08x41-177F	1.5	1.0	1.8	1.0	1.5	1.0	3.0	2.5	1.7
DA08x41-193F	3.0	1.5	1.8	1.5	2.0	1.0	3.0	2.0	2.0
DA09x39-17F	2.5	1.5	2.0	2.0	1.0	1.0	3.0	2.5	1.9
DA09x39-26F	3.0	3.0	2.0	2.0	1.5	1.5	2.5	2.0	2.2
DA09x40-40F	4.0	3.0	3.0	4.0	2.5	2.5	4.0	3.0	3.2
DS422-4	3.0	2.0	2.0	1.5	1.5	1.0	3.0	3.0	2.1
K13-1763	3.0	2.0	1.8	2.0	1.5	2.0	3.0	2.0	2.2
K13-1777	2.0	3.0	1.8	2.0	1.0	1.5	3.0	2.0	2.0
K13-1786	3.5	2.0	2.8	2.0	1.5	1.5	3.5	3.0	2.5
K13-1809	4.0	2.0	2.3	3.0	1.5	1.5	3.0	2.0	2.4
K13-1830	2.5	1.0	1.8	2.0	1.0	1.0	2.0	2.0	1.7
MD99-6626	1.5	1.5	1.8	2.0	1.0	1.0	2.5	2.0	1.7
N11-7055	2.5	2.0	3.0	3.5	2.5	2.0	3.5	2.0	2.6
N11-10769	2.0	2.0	2.0	2.0	1.5	1.0	3.0	2.0	1.9
R10-563	3.0	2.5	2.3	3.5	1.0	2.0	3.0	2.5	2.5
R10-1261	3.0	2.0	2.5	2.5	2.0	1.5	3.0	2.0	2.3
R10-5086	2.5	2.5	1.5	2.5	1.0	1.0	3.0	3.0	2.1
R11-357RY	1.5	1.5	1.8	2.0	1.0	1.0	3.0	2.5	1.8
R12-6529RR	4.0	2.5	2.0	3.5	2.0	2.0	3.0	3.0	2.7
R12-7448RY	3.0	2.5	2.5	2.5	2.0	2.0	3.0	3.0	2.6
RN06-32)7b	3.5	3.0	3.3	3.0	3.0	3.0	4.0	3.0	3.2
S12-4718	1.0	1.5	1.5	2.5	1.0	1.5	3.0	2.0	1.7
S13-1805	3.0	2.0	2.5	2.0	1.5	1.5	3.0	2.0	2.2
S13-8912	3.0	2.5	2.5	3.5	2.0	2.5	3.0	3.0	2.7
S13-9205	4.0	3.0	2.8	4.5	1.5	2.5	3.0	3.0	3.0
S13-13342	2.0	3.0	2.3	2.5	1.5	1.0	3.0	4.0	2.4
S13-14616	2.0	2.5	2.0	3.0	1.0	1.0	3.0	3.5	2.2
TN12-5507R2	3.0	2.0	2.0	1.5	2.0	1.0	2.5	3.0	2.1
TN13-4705R2	2.5	2.0	2.3	2.0	2.0	1.5	3.0	2.0	2.2
TN13-5002	1.0	2.0	1.5	1.0	1.0	1.0	3.0	2.0	1.6
TN13-5501R2	1.0	2.0	2.0	1.0	1.0	1.0	2.5	2.0	1.6
TN14-5036	2.5	1.5	1.5	2.0	1.0	1.0	2.0	2.0	1.7
TN56Cx-1282	1.0	2.0	1.5	1.0	1.0	1.0	3.0	2.0	1.6
V11-0119	1.0	2.0	1.5	1.5	1.0	1.0	2.5	2.0	1.6
V11-0730	2.0	1.5	1.5	1.0	1.0	1.0	2.5	2.0	1.6
V11-3485	3.0	2.0	1.5	1.5	1.0	1.0	3.0	2.0	1.9
Mean	2.4	2.1	2.0	2.2	1.4	1.4	2.9	2.5	.

TABLE 54 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP V FOR YEAR 2015

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	McCune, KS	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Test Mean
OSAGE	1.0	1.0	.	2.0	2.0	2.0	3.0	2.0	1.8
Ellis	2.0	1.0	.	2.0	2.0	2.0	3.0	2.0	2.0
JTN-5203	2.0	2.0	.	1.5	2.0	2.0	3.0	2.0	2.1
UA 5612	2.0	2.0	.	1.0	2.0	2.0	2.5	2.0	1.9
AG 5332RR2Y	2.0	1.0	.	2.0	2.0	2.0	3.0	2.0	2.0
AG 5534RR2	2.0	2.0	.	1.5	2.0	2.0	3.0	2.0	2.1
AG 5335	2.0	1.0	.	3.0	2.0	1.0	3.0	2.0	2.1
DA08x41-177F	2.0	2.0	.	1.0	2.0	2.0	3.0	2.0	2.0
DA08x41-193F	2.0	2.0	.	1.0	2.0	1.0	2.5	2.0	1.8
DA09x39-17F	2.0	2.0	.	1.5	3.0	1.0	3.0	2.0	2.1
DA09x39-26F	2.0	1.0	.	1.0	2.0	3.0	3.0	2.0	2.0
DA09x40-40F	2.0	1.0	.	2.0	2.0	2.0	3.0	2.0	2.0
DS422-4	2.0	1.0	.	1.5	2.0	1.0	3.0	2.0	1.8
K13-1763	2.0	2.0	.	2.0	2.0	2.0	3.0	2.0	2.1
K13-1777	2.0	1.0	.	3.0	2.0	2.0	3.0	2.0	2.2
K13-1786	2.0	2.0	.	1.0	2.0	2.0	3.0	2.0	2.0
K13-1809	2.0	2.0	.	1.0	2.0	2.0	3.0	2.0	2.0
K13-1830	2.0	2.0	.	2.0	2.0	2.0	3.0	2.0	2.1
MD99-6626	2.0	2.0	.	2.0	3.0	3.0	3.0	2.0	2.4
N11-7055	2.0	1.0	.	1.0	2.0	2.0	3.0	2.0	1.8
N11-10769	2.0	2.0	.	2.0	3.0	3.0	3.0	2.0	2.4
R10-563	2.0	1.0	.	2.0	2.0	2.0	3.0	2.0	2.0
R10-1261	2.0	1.0	.	2.0	2.0	2.0	3.0	2.0	2.0
R10-5086	1.5	1.0	.	2.0	2.0	2.0	3.0	2.0	1.9
R11-357RY	1.5	1.0	.	2.0	2.0	2.0	2.5	2.0	1.8
R12-6529RR	2.0	2.0	.	3.0	1.0	2.0	3.0	2.0	2.2
R12-7448RY	1.5	1.0	.	2.0	2.0	3.0	3.0	2.0	2.1
RN06-32)7b	3.0	1.0	.	1.0	3.0	2.0	3.0	2.0	2.1
S12-4718	2.5	1.0	.	2.0	1.0	2.0	3.0	2.0	2.0
S13-1805	2.0	3.0	.	2.5	3.0	1.0	2.5	2.0	2.3
S13-8912	2.0	1.0	.	2.5	2.0	2.0	3.0	2.0	2.1
S13-9205	2.0	1.0	.	1.5	2.0	1.0	3.0	2.0	1.8
S13-13342	1.5	1.0	.	3.5	1.0	1.0	3.0	2.0	1.9
S13-14616	2.0	1.0	.	2.5	2.0	1.0	3.0	2.0	2.0
TN12-5507R2	2.0	1.0	.	2.5	2.0	2.0	2.5	2.0	2.0
TN13-4705R2	2.5	2.0	.	1.5	3.0	2.0	2.5	2.0	2.2
TN13-5002	2.0	1.0	.	2.0	1.0	2.0	3.0	2.0	1.9
TN13-5501R2	2.0	1.0	.	2.0	2.0	1.0	3.0	2.0	1.9
TN14-5036	2.0	1.0	.	1.0	3.0	2.0	2.5	2.0	1.9
TN56Cx-1282	2.0	1.0	.	2.0	3.0	2.0	3.0	2.0	2.1
V11-0119	2.5	1.0	.	1.5	3.0	2.0	3.0	2.0	2.1
V11-0730	3.0	2.0	.	2.0	3.0	2.0	3.0	2.0	2.4
V11-3485	3.0	2.0	.	2.0	3.0	2.0	3.0	2.0	2.4
Mean	2.0	1.4	.	1.9	2.2	1.9	2.9	2.0	.

TABLE 55 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AG6534	Commercial check		RR1	
2	NCC07-8138	MD99-6226 x N97-9677		Conv	Diversity
3	NC-ROY	Holladay x Brim		Conv	
4	NCC06-1090	N99-8137 x TN99-117		Conv	Diversity
5	N06-19	N99-58 x SC97-318		Conv	12.5% PI 438302B
6	N07-15444	NC-Roy x PI 399045	F4	Conv	Diversity 50% PI 399045
7	N08-174	N99-186 x TN99-117		Conv	
8	N09-12273	NC-Roy x Blue Side-BB	F4	Conv	Diversity 50% Blue Side
9	N09-12838	N7103 x PI 408337-BB	F4	Conv	Diversity 50% PI 408337
10	N09-12854	N710 3 x PI 408337-BB	F4	Conv	Diversity 50% PI 408337
11	N09-9	N02-70 x G98-1420		Conv	
12	N10-7189	NC-Roy x PI 408337-BB	F4	Conv	Diversity 50% PI 408337
13	N10-7277	N03-11936 x NC-Roy	F4	Conv	Diversity 25% PI 471931
14	N11-7125	NC-Roy x LD00-3309	F4	Conv	Diversity 50% Midwestern pedigree
15	N11-8508	NC-Roy x PI 417021	F4	Conv	Diversity 50% 417021
16	N11-9263	N03-12249 x N03-11895	F4	Conv	Diversity 50% Chinese PI 437726
17	N11-9298	N03-12249 x N03-11895	F4	Conv	Diversity 50% Chinese PI 437726
18	R11-171	5002T x R01-2346	F5	Conv	
19	R11-1057	MD00-6015 x R02-3065	F5	Conv	
20	R11-2299	NCC04-734 x R01-327	F5	Conv	
21	R11-2419	R01-976 x NCC02-307	F5	Conv	
22	R11-2517	R01-976 x R03-946	F5	Conv	
23	TN08-100	5601T x PI417088		Conv	
24	TN09-44,420	TN02-226 x MON RR2Y		RR2	
25	TN09-48,012	TN02-226 x MON RR2Y		RR2	
26	TN11-5140	Hutcheson x TN89-39		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 56 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST VI FOR YEAR 2015**

STRAIN/ VARIETY	AVERAGE		YIELD [†]			PROTEIN [‡]			OIL [‡]		
	RANK	RANK	2015	14-15	13-15	2015	14-15	13-15	2015	14-15	13-15
AG6534	11	14	55.8	55.7	.	35.9	36.3	.	18.9	19.1	.
NCC07-8138	4	7	60.7	61.5	62.0	34.6	34.8	34.8	19.7	19.8	19.8
NC-ROY	20	17	52.5	54.0	55.0	35.6	36.3	36.3	18.4	18.4	18.6
NCC06-1090	1	7	60.9	60.3	60.3	33.3	33.8	34.1	20.5	20.4	20.4
N06-19	17	14	54.2	.	.	35.3	.	.	19.6	.	.
N07-15444	24	22	49.0	.	.	35.9	.	.	17.8	.	.
N08-174	2	5	60.9	.	.	34.0	.	.	19.5	.	.
N09-12273	19	17	52.9	53.5	.	34.6	35.0	.	20.1	20.2	.
N09-12838	23	20	50.2	49.0	.	36.6	37.1	.	17.7	17.9	.
N09-12854	26	23	46.6	47.2	.	35.5	35.9	.	17.9	18.2	.
N09-9	12	13	55.5	57.8	.	34.0	34.1	.	19.5	19.8	.
N10-7189	15	14	54.6	54.6	.	36.2	36.5	.	18.2	18.4	.
N10-7277	25	22	46.8	48.2	.	35.7	36.0	.	18.0	18.2	.
N11-7125	18	15	53.7	.	.	35.6	.	.	17.8	.	.
N11-8508	14	13	55.3	.	.	35.9	.	.	18.5	.	.
N11-9263	22	18	51.5	.	.	34.3	.	.	19.7	.	.
N11-9298	21	18	51.9	52.4	.	34.2	34.3	.	21.0	21.0	.
R11-171	3	7	60.8	.	.	34.8	.	.	19.4	.	.
R11-1057	9	9	57.9	58.5	.	34.8	35.3	.	19.8	19.8	.
R11-2299	16	15	54.4	.	.	33.4	.	.	19.4	.	.
R11-2419	7	9	58.7	58.7	.	35.5	35.3	.	19.3	19.5	.
R11-2517	6	9	58.9	.	.	34.5	.	.	20.3	.	.
TN08-100	10	12	57.7	58.1	58.4	35.8	36.0	35.8	19.9	19.8	19.9
TN09-44,420	8	11	58.1	56.8	57.6	33.9	34.3	34.3	19.1	19.1	19.3
TN09-48,012	13	12	55.5	56.2	.	35.5	35.7	.	18.4	18.9	.
TN11-5140	5	7	60.4	60.5	.	35.2	35.5	.	19.5	19.6	.
Mean	.	.	55.2	.	.	35.0	.	.	19.1	.	.
LSD(0.05)	.	.	4.6	.	.	0.9	.	.	0.7	.	.
CV(%)	.	.	12.8	.	.	2.3	.	.	3.3	.	.

† Data not included in mean: 2015 – Tallassee, AL (A); Bossier City, LA
2014 – Fairhope, AL; Florence, SC; Tallassee, AL (A)
2013 – Tallassee, AL (A)

‡Protein percentage and oil percentage data from 2013 and 2014 were converted from dry weight basis to a 13% moisture basis using a 0.87 conversion factor in order to calculate the multi-year averages.

TABLE 57 - GENERAL SUMMARY OF BOTANICAL TRAITS FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AG6534	0	1.5	31	2.3	13.2	P	T	T
NCC07-8138	-4	1.5	25	2.0	15.7	P	G	T
NC-ROY	0	2.1	31	1.6	12.1	W	G	Br
NCC06-1090	-2	2.0	30	2.1	16.2	P	G	Br
N06-19	-5	1.9	30	2.0	12.9	P	G	T
N07-15444	0	2.0	33	1.9	11.4	W	T	Br
N08-174	-4	1.8	29	1.8	14.6	P	T	T
N09-12273	0	2.2	29	2.2	16.1	P	G	Br
N09-12838	0	2.1	35	1.6	12.1	W	T	T
N09-12854	-1	1.5	28	1.5	11.9	W	G	Br
N09-9	0	1.9	29	1.8	12.7	W	T	T
N10-7189	0	1.9	32	1.5	12.4	W	G	Br
N10-7277	0	1.8	30	1.5	10.5	W	G	T
N11-7125	-2	1.4	25	2.1	10.1	P	G	Br
N11-8508	0	2.1	31	1.4	12.7	W	G	Br
N11-9263	-5	1.6	30	2.1	14.2	P	T	T
N11-9298	-3	1.7	32	2.0	14.5	P	G	T
R11-171	-6	1.7	27	2.2	14.1	W	G	T
R11-1057	-4	1.5	28	2.1	14.6	P	T	T
R11-2299	2	1.8	31	1.5	12.3	P	G	T
R11-2419	-7	1.4	28	2.0	14.6	W	G	T
R11-2517	-2	1.7	31	1.6	16.3	P	G	T
TN08-100	-8	1.4	29	2.6	15.6	W	G	T
TN09-44,420	-1	2.0	30	2.0	12.3	P	Lt	T
TN09-48,012	-3	1.7	30	2.0	12.3	P	Lt	T
TN11-5140	-2	2.1	32	2.0	13.8	W	G	T
Mean	-2	1.8	30	1.9	13.4			
LSD(0.05)	2	0.3	2	0.4	0.8			
CV(%)	149	32.0	11	26.0	7.1			

TABLE 58 - GENERAL SUMMARY OF PEST REACTION FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale) [†]			PRK	SRK	SC	SC	SDS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX
AG6534	5	5	5	2.3	1.0	MS	4.0	.
NCC07-8138	5	4	5	4.0	4.5	MS	4.0	.
NC-ROY	5	5	5	4.8	4.8	SS	3.0	.
NCC06-1090	5	5	5	2.8	3.5	R	1.0	.
N06-19	5	1	5	4.8	1.5	MS	4.0	.
N07-15444	5	5	5	3.0	4.0	S	5.0	.
N08-174	5	5	5	2.3	3.0	R	1.0	.
N09-12273	4	5	5	2.3	2.5	MS	4.0	.
N09-12838	5	5	5	4.8	4.0	MS	4.0	.
N09-12854	5	5	5	4.5	3.5	SS	3.0	.
N09-9	5	4	5	3.3	1.0	R	1.0	.
N10-7189	5	4	5	4.0	4.0	MS	4.0	.
N10-7277	5	3	5	4.5	3.0	MS	4.0	.
N11-7125	5	3	5	4.3	5.0	SS	3.0	.
N11-8508	5	4	4	4.8	5.0	SS	3.0	.
N11-9263	5	5	5	3.8	5.0	S	5.0	.
N11-9298	5	4	5	2.5	4.8	S	5.0	.
R11-171	5	4	5	3.0	2.0	MS	4.0	.
R11-1057	5	5	5	4.3	4.0	SS	3.0	.
R11-2299	5	4	5	4.8	5.0	SS	3.0	.
R11-2419	5	4	5	3.8	5.0	R	1.0	.
R11-2517	5	4	5	2.0	4.0	R	1.0	.
TN08-100	5	5	5	4.3	3.0	R	1.0	.
TN09-44,420	1	1	2	4.3	5.0	SS	3.0	.
TN09-48,012	5	4	4	3.8	5.0	SS	3.0	.
TN11-5140	5	5	5	4.5	1.0	MR	2.0	.

†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 7, and HG Type 2.5.7, respectively.

TABLE 59 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Stoneville, MS	Area Mean
AG6534	58.5	39.6	49.1
NCC07-8138	70.5	65.0	67.8
NC-ROY	62.0	37.9	50.0
NCC06-1090	70.7	61.5	66.1
N06-19	64.1	45.9	55.0
N07-15444	52.8	36.8	44.8
N08-174	66.1	50.2	58.2
N09-12273	61.3	34.6	47.9
N09-12838	58.6	29.6	44.1
N09-12854	52.0	27.3	39.6
N09-9	60.1	51.3	55.7
N10-7189	63.7	37.7	50.7
N10-7277	43.7	27.2	35.4
N11-7125	62.5	43.0	52.7
N11-8508	58.6	41.2	49.9
N11-9263	62.2	39.1	50.4
N11-9298	68.8	38.7	53.8
R11-171	72.2	56.6	64.4
R11-1057	73.3	49.9	61.6
R11-2299	60.7	38.3	49.3
R11-2419	59.3	56.5	57.9
R11-2517	68.2	49.8	59.0
TN08-100	72.4	59.4	65.9
TN09-44,420	73.0	45.4	59.2
TN09-48,012	63.6	41.9	52.6
TN11-5140	73.8	53.6	63.5
Mean	63.6	44.5	54.0
LSD(0.05)	10.9	10.7	10.6
CV(%)	9.7	14.6	13.4

TABLE 59 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

East

STRAIN/ VARIETY	Kinston, NC	Area Mean
AG6534	54.3	53.9
NCC07-8138	59.6	59.6
NC-ROY	50.8	50.4
NCC06-1090	54.3	54.3
N06-19	50.8	50.8
N07-15444	47.9	47.9
N08-174	54.8	54.8
N09-12273	51.3	51.3
N09-12838	52.5	52.1
N09-12854	45.6	45.6
N09-9	54.7	54.7
N10-7189	51.2	51.2
N10-7277	40.2	40.2
N11-7125	48.3	47.5
N11-8508	49.6	49.6
N11-9263	55.0	55.0
N11-9298	49.4	49.4
R11-171	54.6	54.6
R11-1057	56.4	56.4
R11-2299	49.7	49.7
R11-2419	57.5	57.5
R11-2517	54.5	54.5
TN08-100	49.1	49.1
TN09-44,420	48.9	50.2
TN09-48,012	51.4	51.4
TN11-5140	50.2	50.2
Mean	51.6	51.6
LSD(0.05)	7.9	.
CV(%)	8.9	.

TABLE 59 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Calhoun, GA	Clemson, ‡ SC	Fairhope, AL	Tallassee, ‡ AL(A)	Tifton, GA	Area Mean
AG6534	50.2	51.0	46.3	67.8	54.5	27.1	79.0	58.1
NCC07-8138	53.0	54.6	48.5	52.6	60.7	18.1	82.0	58.6
NC-ROY	44.7	54.7	38.5	49.1	59.8	25.7	75.1	53.6
NCC06-1090	54.2	64.0	44.4	52.1	61.8	33.4	85.3	60.3
N06-19	48.4	54.7	52.3	42.9	50.9	26.3	78.1	54.6
N07-15444	44.8	44.8	37.0	41.6	59.1	24.9	76.3	50.6
N08-174	57.1	70.0	48.7	51.3	66.1	30.2	83.4	62.8
N09-12273	46.7	56.4	44.9	47.5	58.8	27.3	74.9	54.9
N09-12838	43.8	51.9	38.4	43.1	53.8	30.2	81.3	52.0
N09-12854	36.4	53.3	40.1	46.6	49.3	22.2	69.0	49.2
N09-9	41.1	53.1	45.9	49.9	60.1	32.0	83.1	55.6
N10-7189	48.5	54.4	43.4	42.5	64.7	23.3	85.3	56.4
N10-7277	43.6	55.1	37.7	44.4	54.6	25.8	74.6	51.7
N11-7125	42.6	61.2	38.1	54.1	62.4	14.5	70.7	54.8
N11-8508	48.6	60.3	42.0	52.6	58.9	29.6	84.9	57.9
N11-9263	38.9	53.2	35.3	45.3	54.5	9.3	80.7	51.3
N11-9298	40.4	49.7	37.5	49.1	63.5	13.6	70.0	51.7
R11-171	46.8	65.6	51.0	48.0	69.5	28.1	83.0	60.6
R11-1057	45.2	58.4	46.4	51.7	57.1	22.6	82.5	56.9
R11-2299	55.6	65.3	48.5	45.3	56.6	24.9	69.1	56.7
R11-2419	47.3	58.9	47.0	60.9	61.6	17.4	79.6	59.2
R11-2517	43.3	65.0	48.6	57.6	67.5	20.6	75.7	59.6
TN08-100	50.7	58.0	44.6	48.4	62.8	28.3	73.8	56.4
TN09-44,420	56.8	54.4	51.0	47.5	62.0	18.0	82.4	59.0
TN09-48,012	49.9	57.4	48.7	48.4	59.9	7.3	78.2	57.1
TN11-5140	56.0	65.1	51.5	50.6	65.4	33.2	78.5	61.2
Mean	47.5	57.3	44.5	49.7	59.8	23.6	78.3	56.2
LSD(0.05)	8.3	13.0	10.4	11.8	10.6	10.9	7.4	5.1
CV(%)	10.6	13.8	14.2	14.5	10.8	28.2	5.8	12.2

‡Data not included in mean: 2015 – Clemson, SC; Tallassee, AL(A)

TABLE 59 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VI FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AG6534	40.0	40.0
NCC07-8138	36.3	36.3
NC-ROY	48.8	48.8
NCC06-1090	46.0	46.0
N06-19	37.0	37.0
N07-15444	44.6	44.6
N08-174	42.5	42.5
N09-12273	42.2	42.2
N09-12838	55.9	55.9
N09-12854	42.2	42.2
N09-9	43.5	43.5
N10-7189	57.0	57.0
N10-7277	52.6	52.6
N11-7125	30.6	30.6
N11-8508	61.2	61.2
N11-9263	51.3	51.3
N11-9298	51.7	51.7
R11-171	48.2	48.2
R11-1057	29.5	29.5
R11-2299	20.9	20.9
R11-2419	42.9	42.9
R11-2517	24.9	24.9
TN08-100	26.8	26.8
TN09-44,420	37.4	37.4
TN09-48,012	32.8	32.8
TN11-5140	35.9	35.9
Mean	41.6	41.6
LSD(0.05)	21.6	.
CV(%)	31.6	.

TABLE 60 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Fairhope, AL	Keiser, AR	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	19.0	19.0	19.8	17.4	18.8	19.6	18.9
NCC07-8138	19.7	20.1	19.5	18.4	19.9	20.6	19.7
NC-ROY	18.0	18.5	19.1	17.8	18.8	18.1	18.4
NCC06-1090	20.4	20.4	20.6	19.6	20.8	21.1	20.5
N06-19	19.7	19.8	20.3	18.5	19.9	19.6	19.6
N07-15444	17.9	17.6	19.0	16.0	17.8	18.4	17.8
N08-174	19.3	19.5	19.9	18.7	19.9	19.7	19.5
N09-12273	20.0	20.1	20.7	18.9	20.4	20.7	20.1
N09-12838	17.8	17.6	18.8	16.4	17.6	18.0	17.7
N09-12854	18.1	17.5	18.9	16.7	17.7	18.4	17.9
N09-9	19.5	18.8	20.6	18.1	19.9	19.8	19.4
N10-7189	17.8	18.2	19.0	17.7	18.7	17.7	18.2
N10-7277	18.0	18.0	18.8	17.7	17.8	17.6	18.0
N11-7125	18.2	18.0	19.5	13.7	18.8	18.7	17.8
N11-8508	18.2	18.5	19.2	18.1	18.6	18.2	18.5
N11-9263	19.5	19.7	20.2	18.6	19.7	20.5	19.7
N11-9298	20.8	20.9	21.5	20.2	21.0	21.3	20.9
R11-171	19.9	20.0	20.1	16.7	20.4	19.5	19.4
R11-1057	19.8	20.0	20.0	18.8	19.7	20.3	19.8
R11-2299	19.0	19.2	20.1	18.8	19.6	19.6	19.4
R11-2419	19.5	20.3	19.8	17.2	19.3	19.8	19.3
R11-2517	20.8	19.5	21.0	19.2	20.2	20.9	20.3
TN08-100	19.7	20.4	20.1	18.2	20.0	21.1	19.9
TN09-44,420	19.5	18.8	19.8	18.1	19.1	19.0	19.0
TN09-48,012	19.3	19.5	19.8	13.4	18.9	19.4	18.4
TN11-5140	19.8	19.7	20.4	16.7	20.0	20.1	19.4
Mean	19.2	19.2	19.9	17.7	19.4	19.5	.

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

TABLE 61 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Fairhope, AL	Keiser, AR	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	35.4	35.0	35.3	38.0	36.1	35.4	35.9
NCC07-8138	34.6	32.7	35.2	36.9	34.0	34.4	34.6
NC-ROY	35.4	35.1	35.1	36.6	35.6	35.5	35.5
NCC06-1090	33.3	32.5	33.3	35.0	33.2	32.5	33.3
N06-19	35.4	33.3	36.1	36.8	34.4	35.7	35.3
N07-15444	34.5	36.3	35.4	38.5	36.9	34.0	35.9
N08-174	33.9	33.6	33.3	34.9	33.3	34.9	34.0
N09-12273	33.8	34.0	33.9	36.0	35.2	34.8	34.6
N09-12838	35.5	36.6	35.6	38.3	37.1	36.2	36.5
N09-12854	34.2	35.5	34.7	37.4	36.9	34.3	35.5
N09-9	32.9	33.7	34.0	35.5	34.1	33.8	34.0
N10-7189	35.7	35.8	35.7	36.7	35.6	37.7	36.2
N10-7277	34.7	35.0	35.6	36.5	36.3	36.3	35.7
N11-7125	34.1	35.0	33.7	40.5	35.4	34.9	35.6
N11-8508	35.4	35.2	35.5	36.6	36.0	36.4	35.8
N11-9263	34.1	33.0	34.4	35.2	34.0	35.0	34.3
N11-9298	34.0	32.7	34.2	34.8	34.2	35.5	34.2
R11-171	34.1	33.5	35.4	36.3	33.8	35.6	34.8
R11-1057	33.7	33.7	36.0	36.5	35.2	33.8	34.8
R11-2299	33.0	33.4	32.9	33.9	34.2	33.1	33.4
R11-2419	34.0	34.6	36.6	36.6	34.7	36.3	35.5
R11-2517	33.3	33.3	34.6	36.3	35.2	34.4	34.5
TN08-100	36.1	34.5	36.5	36.9	34.8	36.1	35.8
TN09-44,420	32.5	33.3	33.0	35.9	34.2	34.5	33.9
TN09-48,012	34.8	33.9	34.5	38.8	35.1	35.6	35.4
TN11-5140	34.7	34.0	35.7	37.5	34.6	34.7	35.2
Mean	34.4	34.2	34.9	36.7	35.0	35.1	.

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

TABLE 62 - SIZE (GRAMS PER 100 SEED) FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Bossier City, LA	Calhoun, GA	Clemson, SC	Fairhope, AL	Keiser, AR	Kinston, NC	Stoneville, MS	Tallassee, AL(A)	Tifton, GA	Test Mean
AG6534	13.9	12.5	13.9	14.4	.	13.7	11.7	16.1	10.0	10.8	15.0	13.2
NCC07-8138	19.1	15.7	14.0	17.8	.	16.6	12.9	16.7	14.4	12.0	18.1	15.7
NC-ROY	12.5	11.7	11.4	12.0	.	13.8	11.4	12.9	9.9	10.0	15.2	12.1
NCC06-1090	17.2	16.9	12.8	15.9	.	16.9	16.5	16.9	15.1	13.8	20.1	16.2
N06-19	14.1	11.9	11.6	14.7	.	13.6	12.4	15.0	11.1	10.4	14.2	12.9
N07-15444	11.7	10.6	11.9	11.4	.	13.4	10.2	12.6	8.2	9.3	14.3	11.4
N08-174	15.4	14.8	13.6	15.5	.	16.2	12.3	15.8	13.5	12.2	16.3	14.6
N09-12273	17.7	16.2	12.8	16.5	.	16.9	15.1	17.8	13.9	14.5	19.3	16.1
N09-12838	13.5	11.6	9.8	12.6	.	13.5	10.7	14.3	10.1	9.6	14.9	12.1
N09-12854	11.5	11.8	12.0	12.0	.	13.2	10.9	13.6	9.3	10.1	14.3	11.9
N09-9	13.7	11.1	13.3	13.3	.	14.3	10.8	13.5	10.4	10.3	16.0	12.7
N10-7189	12.7	11.6	10.8	12.9	.	13.9	11.5	14.4	10.2	10.3	16.1	12.4
N10-7277	10.5	10.7	10.2	10.8	.	12.0	10.0	11.7	7.6	8.8	12.7	10.5
N11-7125	9.6	9.9	12.1	9.9	.	11.1	7.1	10.9	9.5	8.8	12.2	10.1
N11-8508	13.4	12.7	13.1	13.1	.	13.8	11.2	13.2	11.1	10.5	15.1	12.7
N11-9263	14.2	13.4	13.8	14.9	.	15.2	11.2	17.7	13.3	11.0	17.3	14.2
N11-9298	15.7	13.4	11.6	16.1	.	16.6	13.2	16.9	11.5	12.2	17.6	14.5
R11-171	15.4	14.6	14.2	14.9	.	16.0	8.5	14.9	14.3	10.0	18.5	14.1
R11-1057	14.5	14.3	14.4	15.5	.	16.1	13.3	17.4	12.9	11.2	16.2	14.6
R11-2299	13.0	12.0	12.5	12.7	.	13.0	10.4	13.5	11.8	9.8	14.4	12.3
R11-2419	16.5	14.0	14.5	15.3	.	16.4	11.5	16.2	12.9	11.6	16.6	14.6
R11-2517	16.7	15.7	16.6	17.0	.	17.9	15.7	18.8	13.1	12.2	19.5	16.3
TN08-100	17.2	15.5	13.7	18.0	.	16.5	12.4	19.0	14.9	12.0	17.0	15.6
TN09-44,420	12.4	11.4	13.2	12.2	.	13.3	10.6	14.1	11.3	10.2	14.5	12.3
TN09-48,012	13.9	12.4	12.1	13.7	.	13.7	7.8	13.5	10.3	10.3	14.8	12.3
TN11-5140	15.6	13.0	13.1	14.5	.	15.0	9.6	15.9	13.6	11.2	15.9	13.8
Mean	14.3	13.1	12.8	14.1	.	14.7	11.5	15.1	11.7	10.9	16.0	.

TABLE 63 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

Delta

STRAIN/ VARIETY	Stoneville, MS	Area Mean
AG6534	10/11	10/11
NCC07-8138	-4	-4
NC-ROY	-2	-2
NCC06-1090	-2	-2
N06-19	-4	-4
N07-15444	-3	-3
N08-174	-3	-3
N09-12273	-1	-1
N09-12838	-1	-1
N09-12854	-2	-2
N09-9	1	1
N10-7189	-3	-3
N10-7277	-2	-2
N11-7125	-2	-2
N11-8508	-1	-1
N11-9263	-6	-6
N11-9298	-3	-3
R11-171	-4	-4
R11-1057	-1	-1
R11-2299	1	1
R11-2419	-7	-7
R11-2517	-4	-4
TN08-100	-6	-6
TN09-44,420	-2	-2
TN09-48,012	-5	-5
TN11-5140	-6	-6
Mean	-3	-3

TABLE 63 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

East

STRAIN/ VARIETY	Kinston, NC	Area Mean
AG6534	10/26	10/26
NCC07-8138	-5	-5
NC-ROY	-1	-1
NCC06-1090	1	1
N06-19	-4	-4
N07-15444	-2	-2
N08-174	-1	-1
N09-12273	0	0
N09-12838	-1	-1
N09-12854	0	0
N09-9	1	1
N10-7189	0	0
N10-7277	-1	-1
N11-7125	-4	-4
N11-8508	1	1
N11-9263	-4	-4
N11-9298	0	0
R11-171	-6	-6
R11-1057	-5	-5
R11-2299	2	2
R11-2419	-5	-5
R11-2517	0	0
TN08-100	-7	-7
TN09-44,420	1	1
TN09-48,012	-2	-2
TN11-5140	0	0
Mean	-2	-2

TABLE 63 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Calhoun, GA	Clemson, SC	Fairhope, AL	Tallassee, AL(A)	Tifton, GA	Area Mean
AG6534	10/18	10/12	10/14	10/25	10/10	10/13	10/14	10/15
NCC07-8138	-7	-11	10	0	-1	-7	-11	-4
NC-ROY	-5	0	5	2	-2	1	1	0
NCC06-1090	-6	-1	2	4	-1	-3	-3	-1
N06-19	-8	-4	3	-2	1	-8	-13	-4
N07-15444	-1	0	5	1	-1	1	-2	0
N08-174	-7	-2	-1	0	0	-5	-11	-4
N09-12273	-5	0	3	3	-2	-1	-1	0
N09-12838	-1	-1	2	3	2	2	0	1
N09-12854	-4	1	5	4	-3	-1	-3	0
N09-9	-1	-3	2	2	5	-5	-1	0
N10-7189	-3	0	7	2	-1	-1	2	1
N10-7277	-3	1	-1	4	-1	-1	1	0
N11-7125	-6	-1	-1	2	-4	-3	-1	-2
N11-8508	-3	0	2	1	-1	-1	0	0
N11-9263	-9	-6	0	0	-1	-10	-6	-5
N11-9298	-7	-10	4	4	-1	-9	-3	-3
R11-171	-10	-11	8	-1	1	-14	-13	-6
R11-1057	-4	-3	-1	-3	-1	-7	-16	-5
R11-2299	1	2	2	5	1	0	2	2
R11-2419	-9	-10	-1	-4	-1	-10	-15	-7
R11-2517	-6	0	2	2	0	-5	-4	-1
TN08-100	-11	-10	-1	-6	-2	-12	-16	-8
TN09-44,420	-6	-3	0	5	0	-1	-4	-1
TN09-48,012	-6	-3	0	3	1	-1	-6	-2
TN11-5140	-6	-2	12	4	-1	-4	-10	-1
Mean	-5	-3	3	1	0	-4	-5	-2

TABLE 63 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AG6534	10/12	10/12
NCC07-8138	-6	-6
NC-ROY	0	0
NCC06-1090	-6	-6
N06-19	-7	-7
N07-15444	0	0
N08-174	-7	-7
N09-12273	0	0
N09-12838	0	0
N09-12854	0	0
N09-9	-5	-5
N10-7189	0	0
N10-7277	-2	-2
N11-7125	-1	-1
N11-8508	0	0
N11-9263	-8	-8
N11-9298	-6	-6
R11-171	-6	-6
R11-1057	-4	-4
R11-2299	-1	-1
R11-2419	-6	-6
R11-2517	-6	-6
TN08-100	-6	-6
TN09-44,420	-4	-4
TN09-48,012	-7	-7
TN11-5140	-7	-7
Mean	-4	-4

TABLE 64 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Stoneville, MS	Area Mean
AG6534	35	20	28
NCC07-8138	23	21	22
NC-ROY	31	25	28
NCC06-1090	28	24	26
N06-19	28	25	26
N07-15444	35	28	32
N08-174	26	27	27
N09-12273	28	19	23
N09-12838	38	32	35
N09-12854	32	22	27
N09-9	26	26	26
N10-7189	31	25	28
N10-7277	31	25	28
N11-7125	25	19	22
N11-8508	31	23	27
N11-9263	29	25	27
N11-9298	31	29	30
R11-171	27	21	24
R11-1057	27	22	25
R11-2299	38	20	29
R11-2419	29	22	26
R11-2517	30	29	29
TN08-100	28	23	26
TN09-44,420	30	30	30
TN09-48,012	26	26	26
TN11-5140	31	27	29
Mean	30	24	.

TABLE 64 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

East

STRAIN/ VARIETY	Kinston, NC	Area Mean
AG6534	43	43
NCC07-8138	35	35
NC-ROY	35	35
NCC06-1090	37	37
N06-19	41	41
N07-15444	47	47
N08-174	37	37
N09-12273	41	41
N09-12838	46	46
N09-12854	40	40
N09-9	40	40
N10-7189	45	45
N10-7277	40	40
N11-7125	28	28
N11-8508	39	39
N11-9263	41	41
N11-9298	42	42
R11-171	35	35
R11-1057	38	38
R11-2299	42	42
R11-2419	37	37
R11-2517	43	43
TN08-100	40	40
TN09-44,420	39	39
TN09-48,012	37	37
TN11-5140	41	41
Mean	39	.

TABLE 64 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Calhoun, GA	Clemson, SC	Fairhope, AL	Tallassee, AL(A)	Tifton, GA	Area Mean
AG6534	22	36	40	39	28	26	33	32
NCC07-8138	20	29	35	35	26	16	27	27
NC-ROY	24	40	42	34	30	23	35	33
NCC06-1090	26	35	37	37	32	23	34	32
N06-19	24	34	39	38	32	21	34	32
N07-15444	27	37	41	34	33	26	38	34
N08-174	24	33	37	35	32	22	33	31
N09-12273	27	35	37	34	29	20	33	31
N09-12838	31	42	36	35	36	25	43	35
N09-12854	19	34	35	34	27	18	30	28
N09-9	22	34	41	35	31	20	32	31
N10-7189	29	41	35	36	30	22	35	33
N10-7277	24	35	36	37	30	18	35	31
N11-7125	18	33	38	38	22	17	27	28
N11-8508	30	40	34	36	29	21	35	32
N11-9263	23	37	38	35	29	20	33	31
N11-9298	27	38	36	39	32	20	35	32
R11-171	22	32	37	33	28	19	32	29
R11-1057	20	33	41	37	27	22	32	30
R11-2299	27	39	40	36	34	22	35	33
R11-2419	22	34	35	37	30	19	32	30
R11-2517	24	38	37	37	36	22	38	33
TN08-100	23	33	40	38	26	23	34	31
TN09-44,420	23	36	35	35	33	23	35	31
TN09-48,012	32	34	39	37	32	22	33	33
TN11-5140	25	38	38	37	35	30	36	34
Mean	24	36	38	36	30	22	34	.

TABLE 64 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AG6534	15	15
NCC07-8138	13	13
NC-ROY	19	19
NCC06-1090	18	18
N06-19	16	16
N07-15444	23	23
N08-174	16	16
N09-12273	16	16
N09-12838	25	25
N09-12854	20	20
N09-9	15	15
N10-7189	21	21
N10-7277	21	21
N11-7125	13	13
N11-8508	19	19
N11-9263	16	16
N11-9298	21	21
R11-171	14	14
R11-1057	14	14
R11-2299	13	13
R11-2419	15	15
R11-2517	14	14
TN08-100	15	15
TN09-44,420	15	15
TN09-48,012	15	15
TN11-5140	15	15
Mean	17	.

TABLE 65 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

Delta

STRAIN/ VARIETY	Keiser, AR	Stoneville, MS	Area Mean
AG6534	1.5	2.0	1.8
NCC07-8138	1.2	2.0	1.6
NC-ROY	3.0	2.0	2.5
NCC06-1090	1.5	2.0	1.8
N06-19	1.2	2.7	1.9
N07-15444	2.3	2.7	2.5
N08-174	1.3	2.3	1.8
N09-12273	2.8	2.0	2.4
N09-12838	2.7	3.0	2.8
N09-12854	1.3	2.0	1.7
N09-9	1.7	3.0	2.3
N10-7189	2.8	2.3	2.6
N10-7277	2.5	2.3	2.4
N11-7125	1.3	2.0	1.7
N11-8508	2.8	2.0	2.4
N11-9263	1.2	2.0	1.6
N11-9298	1.2	2.7	1.9
R11-171	1.2	2.0	1.6
R11-1057	1.5	2.0	1.8
R11-2299	1.8	2.0	1.9
R11-2419	1.3	2.0	1.7
R11-2517	1.5	2.3	1.9
TN08-100	1.2	2.0	1.6
TN09-44,420	1.5	2.7	2.1
TN09-48,012	1.3	2.3	1.8
TN11-5140	1.7	2.7	2.2
Mean	1.7	2.3	.

TABLE 65 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

East

STRAIN/ VARIETY	Kinston, NC	Area Mean
AG6534	2.0	2.0
NCC07-8138	1.8	1.8
NC-ROY	2.8	2.8
NCC06-1090	2.3	2.3
N06-19	2.5	2.5
N07-15444	2.0	2.0
N08-174	2.0	2.0
N09-12273	3.0	3.0
N09-12838	2.5	2.5
N09-12854	2.3	2.3
N09-9	2.5	2.5
N10-7189	3.0	3.0
N10-7277	2.5	2.5
N11-7125	1.8	1.8
N11-8508	2.5	2.5
N11-9263	2.0	2.0
N11-9298	2.3	2.3
R11-171	2.0	2.0
R11-1057	2.3	2.3
R11-2299	2.3	2.3
R11-2419	1.8	1.8
R11-2517	2.3	2.3
TN08-100	2.0	2.0
TN09-44,420	2.3	2.3
TN09-48,012	2.3	2.3
TN11-5140	2.3	2.3
Mean	2.3	.

TABLE 65 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Calhoun, GA	Clemson, SC	Fairhope, AL	Tallassee, AL(A)	Tifton, GA	Area Mean
AG6534	1.0	1.0	3.0	1.7	1.3	1.0	1.0	1.4
NCC07-8138	1.0	1.0	2.7	2.7	1.3	1.0	1.0	1.5
NC-ROY	1.5	1.7	1.7	4.0	2.7	1.0	2.0	2.1
NCC06-1090	1.0	1.7	1.3	4.0	3.3	1.2	2.3	2.1
N06-19	1.0	2.0	2.0	3.3	2.7	1.3	1.0	1.9
N07-15444	1.0	1.7	2.0	3.7	2.7	1.2	1.7	2.0
N08-174	1.0	1.3	1.5	4.0	2.7	1.2	1.3	1.9
N09-12273	1.0	2.3	2.3	3.7	3.0	1.0	2.0	2.2
N09-12838	1.0	1.7	1.8	3.7	3.0	1.0	2.0	2.0
N09-12854	1.0	1.3	2.0	2.0	1.7	1.0	1.0	1.4
N09-9	1.0	1.7	2.0	3.0	2.3	1.0	1.7	1.8
N10-7189	1.0	1.7	1.3	3.7	1.7	1.0	1.3	1.7
N10-7277	1.0	1.7	1.7	3.7	2.0	1.0	1.0	1.7
N11-7125	1.0	1.3	2.0	2.0	1.0	1.0	1.0	1.3
N11-8508	1.0	2.3	1.0	4.0	3.0	1.0	2.7	2.1
N11-9263	1.0	1.7	2.0	2.3	2.0	1.0	1.0	1.6
N11-9298	1.0	1.7	1.0	3.0	2.3	1.2	1.0	1.6
R11-171	1.0	1.3	1.3	3.7	2.7	1.2	1.3	1.8
R11-1057	1.0	1.3	1.7	2.0	2.0	1.0	1.0	1.4
R11-2299	1.0	1.7	1.7	3.0	2.3	1.0	1.7	1.8
R11-2419	1.0	1.0	1.7	2.0	2.0	1.0	1.0	1.4
R11-2517	1.0	1.0	1.3	3.0	2.7	1.2	1.0	1.6
TN08-100	1.0	1.0	1.3	2.7	1.0	1.2	1.0	1.3
TN09-44,420	1.0	2.3	1.7	3.0	2.7	1.5	2.0	2.0
TN09-48,012	1.0	2.0	1.3	2.3	2.3	1.0	1.3	1.6
TN11-5140	1.0	1.7	3.0	3.0	3.3	1.0	2.3	2.2
Mean	1.0	1.6	1.8	3.0	2.3	1.1	1.4	.

TABLE 65 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AG6534	1.0	1.0
NCC07-8138	1.0	1.0
NC-ROY	1.0	1.0
NCC06-1090	1.0	1.0
N06-19	1.0	1.0
N07-15444	1.0	1.0
N08-174	1.0	1.0
N09-12273	1.0	1.0
N09-12838	1.0	1.0
N09-12854	1.0	1.0
N09-9	1.0	1.0
N10-7189	1.0	1.0
N10-7277	1.0	1.0
N11-7125	1.0	1.0
N11-8508	1.0	1.0
N11-9263	1.0	1.0
N11-9298	1.0	1.0
R11-171	1.0	1.0
R11-1057	1.0	1.0
R11-2299	1.0	1.0
R11-2419	1.0	1.0
R11-2517	1.0	1.0
TN08-100	1.0	1.0
TN09-44,420	1.0	1.0
TN09-48,012	1.0	1.0
TN11-5140	1.0	1.0
Mean	1.0	.

TABLE 66 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2014

Delta

STRAIN/ VARIETY	Keiser, AR	Stoneville, MS	Area Mean
AG6534	2.0	2.0	2.0
NCC07-8138	1.0	2.0	1.5
NC-ROY	2.0	2.0	2.0
NCC06-1090	1.0	2.0	1.5
N06-19	2.0	2.0	2.0
N07-15444	1.0	2.0	1.5
N08-174	1.0	2.0	1.5
N09-12273	2.0	2.0	2.0
N09-12838	2.0	2.0	2.0
N09-12854	1.0	2.0	1.5
N09-9	2.0	2.0	2.0
N10-7189	2.0	2.0	2.0
N10-7277	2.0	2.0	2.0
N11-7125	3.0	2.0	2.5
N11-8508	2.0	2.0	2.0
N11-9263	1.0	2.0	1.5
N11-9298	1.0	2.0	1.5
R11-171	2.0	2.0	2.0
R11-1057	1.0	2.0	1.5
R11-2299	1.0	2.0	1.5
R11-2419	1.0	2.0	1.5
R11-2517	1.0	2.0	1.5
TN08-100	1.0	2.0	1.5
TN09-44,420	1.0	2.0	1.5
TN09-48,012	2.0	2.0	2.0
TN11-5140	2.0	2.0	2.0
Mean	1.5	2.0	.

TABLE 66 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2014

East

STRAIN/ VARIETY	Kinston, NC	Area Mean
AG6534	2.0	2.0
NCC07-8138	2.0	2.0
NC-ROY	1.0	1.0
NCC06-1090	2.0	2.0
N06-19	2.0	2.0
N07-15444	1.5	1.5
N08-174	1.5	1.5
N09-12273	2.0	2.0
N09-12838	1.5	1.5
N09-12854	1.0	1.0
N09-9	1.5	1.5
N10-7189	1.5	1.5
N10-7277	1.0	1.0
N11-7125	1.5	1.5
N11-8508	1.0	1.0
N11-9263	2.0	2.0
N11-9298	1.5	1.5
R11-171	2.0	2.0
R11-1057	2.5	2.5
R11-2299	2.0	2.0
R11-2419	2.0	2.0
R11-2517	1.5	1.5
TN08-100	4.0	4.0
TN09-44,420	2.0	2.0
TN09-48,012	2.0	2.0
TN11-5140	1.5	1.5
Mean	1.8	.

TABLE 66 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2014

South

STRAIN/ VARIETY	Athens, GA(A)	Belle Mina, AL	Calhoun, GA	Clemson, SC	Fairhope, AL	Tallassee, AL(A)	Tifton, GA	Area Mean
AG6534	3.2	1.0	2.8	.	3.5	2.5	1.7	2.4
NCC07-8138	3.2	1.0	2.5	.	2.5	2.5	1.7	2.2
NC-ROY	1.2	1.0	1.7	.	2.5	2.0	1.5	1.6
NCC06-1090	2.8	1.1	3.0	.	3.3	1.8	1.7	2.3
N06-19	2.7	1.0	2.3	.	2.8	2.7	1.5	2.2
N07-15444	2.2	1.3	2.0	.	3.0	2.2	1.8	2.1
N08-174	2.7	1.0	2.2	.	2.5	2.0	1.5	2.0
N09-12273	2.7	1.2	1.8	.	3.5	2.5	2.0	2.3
N09-12838	1.5	1.0	1.7	.	1.5	1.5	1.5	1.4
N09-12854	1.6	1.0	2.0	.	1.7	1.5	1.5	1.5
N09-9	2.2	1.0	2.2	.	1.5	2.3	1.8	1.8
N10-7189	1.3	1.0	1.5	.	1.5	1.5	1.5	1.4
N10-7277	1.5	1.0	2.2	.	1.5	1.5	1.2	1.5
N11-7125	2.7	1.3	2.5	.	1.8	3.0	1.7	2.2
N11-8508	1.2	1.0	1.7	.	1.7	1.5	1.5	1.4
N11-9263	2.8	1.3	2.5	.	3.0	3.5	1.5	2.4
N11-9298	3.0	1.0	2.5	.	2.3	3.3	1.5	2.3
R11-171	4.0	1.1	3.3	.	2.7	2.5	1.5	2.5
R11-1057	3.2	1.0	2.5	.	3.0	2.5	1.5	2.3
R11-2299	1.8	1.0	1.7	.	2.0	1.0	1.5	1.5
R11-2419	3.3	1.0	3.0	.	2.5	2.0	1.5	2.2
R11-2517	2.2	1.0	2.2	.	2.0	1.2	1.5	1.7
TN08-100	3.8	1.3	3.7	.	3.7	4.0	1.5	3.0
TN09-44,420	2.2	1.3	2.5	.	3.0	3.0	1.5	2.2
TN09-48,012	2.2	1.0	2.5	.	2.7	2.7	1.5	2.1
TN11-5140	2.2	1.0	2.3	.	3.0	2.5	1.5	2.1
Mean	2.4	1.1	2.3	.	2.5	2.3	1.6	.

TABLE 66 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VI FOR YEAR 2014

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AG6534	2.0	2.0
NCC07-8138	1.5	1.5
NC-ROY	1.0	1.0
NCC06-1090	2.0	2.0
N06-19	1.0	1.0
N07-15444	2.0	2.0
N08-174	1.5	1.5
N09-12273	2.0	2.0
N09-12838	2.0	2.0
N09-12854	2.0	2.0
N09-9	1.5	1.5
N10-7189	1.5	1.5
N10-7277	1.5	1.5
N11-7125	2.0	2.0
N11-8508	1.0	1.0
N11-9263	1.0	1.0
N11-9298	1.5	1.5
R11-171	1.0	1.0
R11-1057	1.5	1.5
R11-2299	1.5	1.5
R11-2419	2.0	2.0
R11-2517	1.0	1.0
TN08-100	1.0	1.0
TN09-44,420	1.5	1.5
TN09-48,012	1.0	1.0
TN11-5140	1.5	1.5
Mean	1.5	.

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TABLE 67 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AG6534	Commercial check		RR1	
2	NCC07-8138	MD99-6226 x N97-9677		Conv	Diversity
3	NC-ROY	Holladay x Brim		Conv	
4	NCC06-1090	N99-8137 x TN99-117		Conv	Diversity
5	G12-1149R2	G00-3213(4) x RR2Y	F5d	RR2	
6	G12-1475R2	G00-3880(4) x RR2Y	F5d	RR2	
7	G12-2152R2	G00-3213 x [G00-3880(3) x RR2Y]	F5d	RR2	
8	N08-2627	N77-114 X N77-907		Conv	VP Diallel - 1
9	N08-2662	Carver x N98-6403		Conv	SCN
10	N10-7187	NC-Roy x 408337-BB	F4	Conv	Diversity 50% PI 408337
11	N11-339	N05-741 x N05-196		Conv	
12	N11-340	N05-741 x N05-196		Conv	
13	N11-352	N05-741 x N05-196		Conv	
14	N11-7089	NC-Roy x LD00-3309		Conv	50% Midwestern pedigree
15	N11-8098	SC97-1821 x MN0302		Conv	
16	N11-8124	SC97-1821 x MN0302		Conv	
17	N11-8472	NC-Roy x PI 417021	F4	Conv	Diversity 50% 417021
18	N11-8526	NC-Roy x PI 417021	F4	Conv	Diversity 50% 417021
19	N11-9519	Young x N02-8718	F4	Conv	Diversity 25% FUKUYATAKA
20	R10-2622	R01-888F x R05-5559	F5	Conv	
21	R11-2354	NCC04-734 x R03-1232	F4	Conv	
22	R11-2559	R03-1232 x R01-327	F4	Conv	
23	R12-514	Osage x N02-7002	F5	Conv	
24	R12-1012	UA 5612 x UA 5014C	F3	Conv	
25	R12-11713	Caviness x R01-2731F	F5	Conv	Diversity 25%-PI 592947
26	SC10-258	SC98-1930/Manokin(2)		Conv	LJ
27	TN12-5707R2	TN02-226 x MON RR2Y		RR2	
28	TN12-5712R2	TN02-226 x MON RR2Y		RR2	
29	TN12-6509R2	TN02-226 x MON RR2Y		RR2	
30	TN13-5513R2	5601T x TN09-47,164		RR2	
31	TN13-5723R2	5601T x TN09-45,497		RR2	
32	TN13-5745RR1	5601T[4] x TN93-99RR		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 and STS = sulfonylurea tolerant

**TABLE 68 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN PRELIMINARY TEST VI FOR YEAR 2015**

STRAIN/ VARIETY	SEED		AVG.		MAT.		SEED		% PROTEIN†	% OIL†	SCN Cyst Score (1-5 Scale)‡			SC RATING	SC SCORE	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	INDEX	LOGGING	HEIGHT	QUALITY	SIZE			Race 2	Race 3	Race 5					
AG6534	51.2	8	12	0	1.8	33	2.3	12.7	36.3	18.8	5	5	5	MS	4	P	T	Br
NCC07-8138	54.0	2	6	-4	1.8	26	2.5	15.2	35.2	19.2	5	5	4	MS	4	P	G	T
NC-ROY	47.0	20	17	-1	2.4	33	1.9	11.1	36.1	18.1	5	5	5	SS	3	W	G	Br
NCC06-1090	48.3	16	15	-1	2.3	29	2.2	16.1	33.7	20.5	5	5	4	R	1	P	G	Br
G12-1149R2	42.1	27	22	3	2.7	35	2.0	13.1	36.6	18.5	5	1	5	MS	4	W	T	T
G12-1475R2	48.4	15	15	0	2.4	37	2.1	12.3	34.7	18.9	5	2	5	SS	3	P	T	T
G12-2152R2	38.6	32	26	1	2.7	35	2.1	12.0	37.5	17.9	5	1	3	SS	3	W	T	T
N08-2627	39.7	30	28	-2	2.7	30	2.4	14.0	34.8	20.1	5	5	5	R	1	P	G	T
N08-2662	43.1	26	24	-2	2.8	35	1.9	11.0	36.6	17.5	5	5	5	MS	4	W	G	Br
N10-7187	44.1	24	21	-2	2.5	32	2.1	10.8	37.3	17.0	4	5	5	MS	4	W	G	Br
N11-339	49.9	11	12	0	1.8	27	2.0	12.3	34.3	19.6	4	4	5	SS	3	W	G	T
N11-340	50.9	9	11	-3	1.7	24	2.0	12.1	34.6	19.9	5	5	5	R	1	W	G	T
N11-352	51.2	7	12	-1	1.9	25	2.0	11.0	34.9	19.6	3	4	5	R	1	W	G	T
N11-7089	46.4	21	20	-2	2.8	33	2.1	11.1	36.7	17.6	4	5	5	S	5	W	G	T
N11-8098	41.0	28	26	0	2.3	34	2.3	15.1	36.6	19.0	3	4	4	R	1	P	T	T
N11-8124	38.7	31	27	-2	2.0	32	2.2	13.5	36.5	18.6	5	3	4	R	1	P	T	T
N11-8472	43.9	25	22	-4	2.9	39	2.1	13.0	36.2	18.2	5	4	5	MS	4	W	G	Br
N11-8526	47.9	18	16	-1	2.7	34	2.0	12.9	36.8	18.7	5	3	5	MR	2	W	G	Br
N11-9519	45.4	23	20	-1	2.6	40	2.0	15.8	37.3	18.6	4	2	5	R	1	W	G	Br
R10-2622	49.1	12	15	-7	2.2	34	2.7	14.4	33.8	20.8	5	4	4	R	1	P	G	T
R11-2354	50.8	10	11	-3	2.0	33	2.4	12.9	35.0	19.2	5	3	5	R	1	W	G	T
R11-2559	52.6	3	8	-3	1.9	31	2.3	14.6	35.5	18.6	5	5	4	R	1	S	G	T
R12-514	55.4	1	5	-8	2.0	30	2.5	13.0	37.1	18.8	5	2	2	R	1	P	T	T
R12-1012	52.1	4	9	-9	1.8	31	2.6	13.4	36.5	18.1	4	5	5	SS	3	P	G	T
R12-11713	48.7	14	14	-4	1.9	35	2.4	14.4	35.6	19.6	5	5	4	SS	3	W	G	T
SC10-258	48.0	17	16	-6	2.1	34	2.7	14.6	36.7	19.4	5	1	5	R	1	W	G	T
TN12-5707R2	47.4	19	18	-2	2.0	29	2.5	12.3	35.0	18.8	5	1	3	MS	4	P	T	T
TN12-5712R2	51.5	6	10	-4	2.1	31	2.2	11.9	35.6	18.2	3	5	4	S	5	P	Lt	T
TN12-6509R2	39.8	29	29	1	2.3	31	2.2	13.3	36.7	17.6	1	2	1	SS	3	P	T	T
TN13-5513R2	45.7	22	20	0	3.3	50	2.0	11.9	36.1	19.4	5	5	5	R	1	W	G	T
TN13-5723R2	51.5	5	9	-2	1.8	32	2.1	12.0	36.2	18.4	5	5	4	R	1	W	G	T
TN13-5745RR1	49.0	13	15	-3	2.0	34	1.9	13.2	36.2	18.4	5	5	4	R	1	W	G	T
Mean	47.3	.	.	-2	2.3	33	2.2	13.0	35.9	18.8	.	.	.	.	.	.	.	.
LSD(0.05)	7.6	.	.	3	.	5	0.5	1.4	1.2	0.8	.	.	.	.	.	.	.	.
CV(%)	14.2	.	.	135	.	15	18.7	8.6	2.0	2.5	.	.	.	.	.	.	.	.

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

‡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 7, and HG Type 2.5.7, respectively.

TABLE 69 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, ‡ MS	Tallassee, ‡ AL(A)	Test Mean
AG6534	46.2	68.7	49.0	41.1	35.2	40.3	51.2
NCC07-8138	51.5	74.9	41.7	47.5	53.9	27.7	54.0
NC-ROY	44.9	69.1	38.4	36.1	27.5	25.0	47.0
NCC06-1090	46.2	75.6	36.6	35.6	69.2	39.7	48.3
G12-1149R2	37.6	49.7	44.1	34.9	21.7	41.0	42.1
G12-1475R2	49.8	63.2	44.4	36.3	23.3	42.7	48.4
G12-2152R2	40.9	45.0	41.4	26.1	15.2	53.3	38.6
N08-2627	35.3	61.3	30.9	32.0	39.5	26.7	39.7
N08-2662	48.8	63.5	27.7	33.9	11.9	40.3	43.1
N10-7187	49.5	56.0	38.2	33.2	16.6	30.3	44.1
N11-339	54.5	67.7	35.3	43.0	10.3	21.7	49.9
N11-340	51.8	62.4	41.7	47.2	11.6	31.3	50.9
N11-352	49.5	61.2	49.4	43.7	23.2	34.7	51.2
N11-7089	60.1	66.7	30.5	31.0	25.3	40.0	46.4
N11-8098	42.6	53.5	33.5	34.1	31.1	23.3	41.0
N11-8124	31.4	52.4	37.0	32.4	25.5	31.7	38.7
N11-8472	41.9	72.4	35.1	27.5	23.7	35.3	43.9
N11-8526	49.8	73.2	32.5	36.8	34.8	29.8	47.9
N11-9519	45.2	64.2	34.6	37.3	41.8	37.0	45.4
R10-2622	51.2	67.3	34.5	44.0	63.5	18.7	49.1
R11-2354	57.8	69.2	37.8	40.0	41.9	33.3	50.8
R11-2559	54.1	74.7	40.3	42.3	52.6	34.7	52.6
R12-514	51.5	71.3	50.4	47.8	61.5	30.3	55.4
R12-1012	54.5	72.9	42.8	39.0	58.4	32.0	52.1
R12-11713	43.2	71.0	38.2	42.6	50.2	36.7	48.7
SC10-258	42.9	71.5	44.6	33.4	44.0	40.3	48.0
TN12-5707R2	40.9	65.0	48.7	34.1	28.8	23.0	47.4
TN12-5712R2	58.1	64.8	39.5	44.2	30.7	30.3	51.5
TN12-6509R2	40.9	60.0	30.7	28.4	13.1	17.0	39.8
TN13-5513R2	43.2	64.2	35.8	39.7	20.6	34.3	45.7
TN13-5723R2	53.8	73.3	39.9	40.2	33.7	30.0	51.5
TN13-5745RR1	47.9	68.9	37.6	42.2	38.0	45.3	49.0
Mean	47.4	65.5	38.8	37.7	33.7	33.1	47.3
LSD(0.05)	10.6	11.4	10.3	7.5	14.5	11.7	7.6
CV(%)	11.0	8.3	15.2	12.1	21.1	21.3	14.2

‡Data not included in mean: 2015 – Stoneville, MS; Tallassee, AL(A)

TABLE 70 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	.	18.1	.	.	19.2	19.2	18.8
NCC07-8138	.	18.4	.	.	19.7	19.5	19.2
NC-ROY	.	17.9	.	.	18.8	17.5	18.1
NCC06-1090	.	20.1	.	.	20.7	20.6	20.5
G12-1149R2	.	17.3	.	.	19.3	18.9	18.5
G12-1475R2	.	18.5	.	.	19.5	18.7	18.9
G12-2152R2	.	16.6	.	.	18.7	18.3	17.9
N08-2627	.	19.6	.	.	20.5	20.2	20.1
N08-2662	.	17.5	.	.	18.2	16.9	17.5
N10-7187	.	17.3	.	.	17.7	16.1	17.0
N11-339	.	19.0	.	.	20.5	19.3	19.6
N11-340	.	19.3	.	.	20.3	20.1	19.9
N11-352	.	18.4	.	.	21.0	19.4	19.6
N11-7089	.	18.1	.	.	17.8	16.9	17.6
N11-8098	.	18.8	.	.	19.0	19.2	19.0
N11-8124	.	18.2	.	.	19.0	18.7	18.6
N11-8472	.	18.3	.	.	18.7	17.6	18.2
N11-8526	.	18.2	.	.	19.4	18.6	18.7
N11-9519	.	18.0	.	.	19.3	18.4	18.6
R10-2622	.	20.0	.	.	21.0	21.5	20.8
R11-2354	.	18.6	.	.	20.1	18.8	19.2
R11-2559	.	18.2	.	.	19.3	18.3	18.6
R12-514	.	18.9	.	.	19.0	18.6	18.8
R12-1012	.	17.7	.	.	18.1	18.4	18.1
R12-11713	.	18.8	.	.	19.5	20.4	19.6
SC10-258	.	18.9	.	.	20.0	19.4	19.4
TN12-5707R2	.	18.2	.	.	19.1	19.1	18.8
TN12-5712R2	.	17.6	.	.	18.5	18.4	18.2
TN12-6509R2	.	17.2	.	.	17.7	17.9	17.6
TN13-5513R2	.	18.9	.	.	19.8	19.5	19.4
TN13-5723R2	.	17.6	.	.	19.1	18.4	18.4
TN13-5745RR1	.	17.8	.	.	18.6	18.9	18.4
Mean	.	18.3	.	.	19.3	18.8	.

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

TABLE 71 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	.	36.8	.	.	36.1	36.1	36.3
NCC07-8138	.	36.7	.	.	33.8	35.2	35.2
NC-ROY	.	36.5	.	.	35.2	36.5	36.1
NCC06-1090	.	34.3	.	.	33.7	33.0	33.7
G12-1149R2	.	37.8	.	.	36.6	35.5	36.6
G12-1475R2	.	35.2	.	.	34.3	34.7	34.7
G12-2152R2	.	39.2	.	.	36.8	36.5	37.5
N08-2627	.	35.4	.	.	34.5	34.4	34.8
N08-2662	.	37.2	.	.	35.5	37.1	36.6
N10-7187	.	37.3	.	.	35.8	38.9	37.3
N11-339	.	35.1	.	.	33.9	33.9	34.3
N11-340	.	34.8	.	.	34.8	34.2	34.6
N11-352	.	36.2	.	.	33.9	34.7	34.9
N11-7089	.	36.6	.	.	36.0	37.5	36.7
N11-8098	.	36.0	.	.	37.4	36.5	36.6
N11-8124	.	36.4	.	.	37.6	35.5	36.5
N11-8472	.	36.4	.	.	35.2	37.1	36.2
N11-8526	.	37.3	.	.	36.2	36.9	36.8
N11-9519	.	37.8	.	.	37.0	37.1	37.3
R10-2622	.	34.7	.	.	33.0	33.8	33.8
R11-2354	.	35.4	.	.	34.5	35.1	35.0
R11-2559	.	35.7	.	.	35.1	35.7	35.5
R12-514	.	36.4	.	.	36.8	38.0	37.1
R12-1012	.	37.2	.	.	36.5	35.8	36.5
R12-11713	.	36.2	.	.	36.1	34.6	35.6
SC10-258	.	37.5	.	.	36.8	35.7	36.7
TN12-5707R2	.	35.9	.	.	34.4	34.6	35.0
TN12-5712R2	.	36.6	.	.	34.9	35.2	35.6
TN12-6509R2	.	37.0	.	.	36.6	36.5	36.7
TN13-5513R2	.	36.2	.	.	36.5	35.7	36.1
TN13-5723R2	.	37.1	.	.	35.9	35.6	36.2
TN13-5745RR1	.	37.0	.	.	35.7	35.9	36.2
Mean	.	36.4	.	.	35.5	35.7	.

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

TABLE 72 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Talleasee, AL(A)	Test Mean
AG6534	.	11.9	15.4	12.8	11.7	11.5	12.7
NCC07-8138	.	13.6	17.4	16.6	15.3	12.9	15.2
NC-ROY	.	11.7	13.3	11.1	9.1	10.5	11.1
NCC06-1090	.	15.4	17.1	18.3	15.9	13.6	16.1
G12-1149R2	.	12.2	15.8	14.4	9.6	13.3	13.1
G12-1475R2	.	11.8	14.6	13.7	10.0	11.2	12.3
G12-2152R2	.	11.8	14.4	12.3	9.4	12.3	12.0
N08-2627	.	12.5	15.1	15.5	14.3	12.6	14.0
N08-2662	.	11.7	14.1	11.6	7.3	10.2	11.0
N10-7187	.	11.0	14.1	11.4	8.2	9.4	10.8
N11-339	.	11.0	14.1	12.5	13.5	10.2	12.3
N11-340	.	11.0	12.8	12.8	13.2	10.8	12.1
N11-352	.	9.7	12.4	11.2	11.8	10.0	11.0
N11-7089	.	11.5	14.1	12.2	7.0	10.6	11.1
N11-8098	.	12.7	19.2	17.0	13.7	13.0	15.1
N11-8124	.	12.6	15.6	13.9	12.9	12.3	13.5
N11-8472	.	11.2	17.3	14.1	10.8	11.6	13.0
N11-8526	.	11.5	15.8	12.9	12.8	11.4	12.9
N11-9519	.	14.7	19.1	16.3	14.8	13.9	15.8
R10-2622	.	12.2	16.5	17.4	13.6	12.2	14.4
R11-2354	.	11.9	13.9	13.4	14.1	11.2	12.9
R11-2559	.	13.8	16.2	15.1	15.7	12.2	14.6
R12-514	.	12.2	14.8	14.0	13.1	10.9	13.0
R12-1012	.	12.9	14.8	14.7	13.6	11.2	13.4
R12-11713	.	13.0	16.9	16.3	13.7	11.9	14.4
SC10-258	.	13.7	16.6	18.0	12.9	11.7	14.6
TN12-5707R2	.	11.5	15.0	14.5	10.2	10.4	12.3
TN12-5712R2	.	11.1	14.5	13.3	10.1	10.3	11.9
TN12-6509R2	.	13.4	15.5	16.4	9.8	11.6	13.3
TN13-5513R2	.	10.9	13.7	12.2	11.8	10.7	11.9
TN13-5723R2	.	11.5	13.9	13.3	10.4	10.7	12.0
TN13-5745RR1	.	12.7	15.1	13.1	13.1	11.8	13.2
Mean	.	12.2	15.3	14.1	12.0	11.5	.

TABLE 73 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST E PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Talassee, AL(A)	Test Mean
AG6534	10/26	.	10/24	10/23	10/9	10/16	10/20
NCC07-8138	-2	.	-5	-3	0	-11	-4
NC-ROY	0	.	0	-1	-1	-4	-1
NCC06-1090	7	.	-3	-3	0	-6	-1
G12-1149R2	7	.	3	4	1	3	3
G12-1475R2	1	.	-1	0	2	-2	0
G12-2152R2	6	.	0	-1	-1	3	1
N08-2627	7	.	-4	-5	-2	-8	-2
N08-2662	4	.	-6	0	-4	-3	-2
N10-7187	5	.	-1	-1	-2	-8	-2
N11-339	3	.	-8	2	2	-1	0
N11-340	-1	.	-3	-3	0	-7	-3
N11-352	1	.	-1	1	0	-3	-1
N11-7089	3	.	-8	-2	-1	-4	-2
N11-8098	2	.	-3	0	1	-1	0
N11-8124	-8	.	0	-1	0	-2	-2
N11-8472	1	.	-1	-9	-1	-9	-4
N11-8526	2	.	-2	0	-2	-1	-1
N11-9519	-1	.	0	-4	-1	-2	-1
R10-2622	-5	.	-6	-5	-6	-13	-7
R11-2354	-4	.	-4	-4	2	-8	-3
R11-2559	0	.	-3	-4	0	-8	-3
R12-514	-9	.	-5	-7	-6	-12	-8
R12-1012	-10	.	-10	-10	-4	-12	-9
R12-11713	-1	.	-2	-4	-4	-8	-4
SC10-258	-3	.	-4	-11	-7	-5	-6
TN12-5707R2	2	.	0	-4	-3	-5	-2
TN12-5712R2	-6	.	-2	-4	-1	-5	-4
TN12-6509R2	4	.	0	2	-1	1	1
TN13-5513R2	5	.	0	-2	5	-6	0
TN13-5723R2	-2	.	-3	0	-4	-4	-2
TN13-5745RR1	1	.	-2	-3	-3	-8	-3
Mean	0	.	-3	-3	-1	-5	.

TABLE 74 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	36	35	39	44	20	24	32
NCC07-8138	33	23	31	27	24	19	26
NC-ROY	33	33	36	48	28	21	33
NCC06-1090	32	30	32	27	29	21	29
G12-1149R2	33	39	48	41	22	30	35
G12-1475R2	37	36	45	46	34	27	37
G12-2152R2	36	37	43	50	21	27	35
N08-2627	35	29	35	33	29	22	30
N08-2662	35	35	42	44	27	27	34
N10-7187	31	33	43	44	22	24	32
N11-339	32	33	31	38	12	19	27
N11-340	30	25	29	32	10	18	24
N11-352	27	28	33	29	13	19	25
N11-7089	35	34	40	42	23	25	33
N11-8098	33	39	43	42	27	24	34
N11-8124	40	38	40	30	20	22	32
N11-8472	36	33	48	47	43	28	39
N11-8526	34	32	45	48	24	24	34
N11-9519	36	36	45	46	49	29	40
R10-2622	39	30	36	42	33	23	33
R11-2354	39	39	44	38	19	22	33
R11-2559	29	34	38	42	26	20	31
R12-514	33	27	34	36	30	22	30
R12-1012	34	26	35	36	32	21	31
R12-11713	35	34	41	37	34	28	35
SC10-258	37	30	37	36	41	25	34
TN12-5707R2	35	31	37	28	25	20	29
TN12-5712R2	35	31	33	36	31	24	31
TN12-6509R2	33	30	40	32	29	24	31
TN13-5513R2	41	49	54	52	62	43	50
TN13-5723R2	37	29	38	42	27	21	32
TN13-5745RR1	33	34	39	34	36	27	34
Mean	34	33	39	39	28	24	.

**TABLE 75 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN
PRELIMINARY GROUP VI FOR YEAR 2015**

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Talasssee, AL(A)	Test Mean
AG6534	1.5	2.5	1.5	2.0	2.0	1.0	1.8
NCC07-8138	2.0	2.0	1.8	2.0	2.0	1.0	1.8
NC-ROY	3.0	3.5	2.3	2.8	2.0	1.0	2.4
NCC06-1090	3.5	2.3	2.0	2.0	3.0	1.2	2.3
G12-1149R2	4.0	3.0	2.3	3.0	2.5	1.5	2.7
G12-1475R2	3.0	3.3	2.0	2.5	3.0	1.0	2.4
G12-2152R2	4.0	3.5	2.3	3.0	2.0	1.3	2.7
N08-2627	4.0	3.3	2.0	2.8	3.0	1.2	2.7
N08-2662	4.0	4.2	2.3	3.3	2.0	1.3	2.8
N10-7187	3.0	3.3	2.5	3.0	2.0	1.3	2.5
N11-339	2.5	2.8	1.8	2.0	1.0	1.0	1.8
N11-340	2.0	2.0	1.8	1.8	1.5	1.0	1.7
N11-352	3.5	1.8	2.0	2.0	1.0	1.0	1.9
N11-7089	4.0	3.8	2.0	3.0	3.0	1.2	2.8
N11-8098	3.5	2.5	2.0	2.5	2.5	1.0	2.3
N11-8124	2.5	2.0	2.0	2.3	2.0	1.0	2.0
N11-8472	4.0	2.0	2.3	2.8	5.0	1.3	2.9
N11-8526	4.0	3.3	2.0	3.0	3.0	1.2	2.7
N11-9519	3.5	2.8	2.0	3.3	3.0	1.2	2.6
R10-2622	4.0	1.8	2.0	2.5	2.0	1.2	2.2
R11-2354	2.5	2.3	2.0	2.5	2.0	1.0	2.0
R11-2559	2.0	2.0	2.0	2.3	2.0	1.3	1.9
R12-514	4.0	1.0	2.0	2.3	2.0	1.0	2.0
R12-1012	3.0	1.8	1.8	1.5	2.0	1.0	1.8
R12-11713	3.0	1.8	1.8	1.8	2.0	1.0	1.9
SC10-258	3.5	1.0	1.8	2.3	3.0	1.2	2.1
TN12-5707R2	2.5	1.8	2.0	2.0	2.5	1.0	2.0
TN12-5712R2	2.5	2.8	1.8	2.3	2.5	1.0	2.1
TN12-6509R2	3.0	2.5	2.3	2.3	3.0	1.0	2.3
TN13-5513R2	4.0	4.2	1.8	3.0	5.0	2.0	3.3
TN13-5723R2	2.0	2.3	1.8	1.8	2.0	1.0	1.8
TN13-5745RR1	2.5	1.8	1.8	2.0	3.0	1.2	2.0
Mean	3.1	2.5	2.0	2.4	2.5	1.1	.

TABLE 76 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VI FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Keiser, AR	Kinston, NC	Plymouth, NC	Stoneville, MS	Tallassee, AL(A)	Test Mean
AG6534	.	1.0	.	3.5	2.0	2.5	2.3
NCC07-8138	.	1.0	.	4.0	2.0	2.7	2.5
NC-ROY	.	1.0	.	3.0	2.0	1.5	1.9
NCC06-1090	.	1.0	.	3.5	2.0	2.2	2.2
G12-1149R2	.	1.0	.	3.5	2.0	1.5	2.0
G12-1475R2	.	1.0	.	4.0	2.0	1.5	2.1
G12-2152R2	.	1.0	.	4.0	2.0	1.5	2.1
N08-2627	.	1.0	.	4.0	2.0	2.3	2.4
N08-2662	.	1.0	.	3.0	2.0	1.7	1.9
N10-7187	.	1.0	.	3.0	2.0	2.3	2.1
N11-339	.	1.0	.	3.5	2.0	1.7	2.0
N11-340	.	1.0	.	3.5	2.0	1.5	2.0
N11-352	.	1.0	.	3.0	2.0	2.0	2.0
N11-7089	.	1.0	.	3.5	2.0	2.0	2.1
N11-8098	.	2.0	.	3.5	2.0	1.8	2.3
N11-8124	.	1.0	.	3.5	2.0	2.2	2.2
N11-8472	.	1.0	.	4.0	2.0	1.7	2.1
N11-8526	.	1.0	.	3.5	2.0	1.5	2.0
N11-9519	.	1.0	.	3.5	2.0	1.5	2.0
R10-2622	.	1.0	.	5.0	2.0	2.8	2.7
R11-2354	.	1.0	.	4.5	2.0	2.0	2.4
R11-2559	.	1.0	.	3.5	2.0	2.5	2.3
R12-514	.	1.0	.	4.5	2.0	2.3	2.5
R12-1012	.	1.0	.	5.0	2.0	2.5	2.6
R12-11713	.	1.0	.	4.0	2.0	2.5	2.4
SC10-258	.	2.0	.	5.0	2.0	2.0	2.7
TN12-5707R2	.	1.0	.	4.5	2.0	2.5	2.5
TN12-5712R2	.	1.0	.	4.0	2.0	2.0	2.2
TN12-6509R2	.	2.0	.	2.5	2.0	2.3	2.2
TN13-5513R2	.	1.0	.	3.0	2.0	2.0	2.0
TN13-5723R2	.	1.0	.	3.5	2.0	2.0	2.1
TN13-5745RR1	.	1.0	.	2.5	2.0	2.0	1.9
Mean	.	1.1	.	3.7	2.0	2.0	.

TABLE 77 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AGS-738RR	G99-4158 x P97M50		RR1	
2	AG7733	Commercial check		RR1	
3	N7003CN	Cook x Anand		Conv	Resistant to all field races of SCN
4	NCC06-899	R97-1634 x N97-9693		Conv	12.5% exotic from PI 416937- USDA CHECK
5	G11-2294R2	G00-3880(2) x RR2Y	BC1F5d	RR2	
6	G11-2663R2	G00-3213(2) x RR2Y	BC1F5d	RR2	
7	G11-2675R2	G00-3213(2) x RR2Y	BC1F5d	RR2	
8	G11PR-56238R2	G00-3880(4) x RR2Y	BC3F3d	RR2	
9	N05-316	NC-Roy x N96-6752		Conv	Diversity 25% PI 416937
10	N07-15529	N7002 x PI 221717	F4	Conv	Diversity 50% PI 221717, 12.5% 416937
11	N09-13534	NC-Roy x N02-8760	F4	Conv	Diversity 25% Tokyo
12	N10-711	NTCPR01-163 x N03-832		Conv	Diversity 25% TAMAHAKARI
13	N10-1031	NTCPR01-163 x N03-832		Conv	Diversity 25% TAMAHAKARI
14	N10-7404	N01-11136 x N98-7265	F4	Conv	Drought 25% PI 471938, 12.5% PI 416937
15	NLM09-77	N6202 x G98SF114.		Conv	High protein/Diversity 12.5% Nakasennari, 12.5% Fukuyataka
16	SC09-052RR	N97-9658/SC00-643RR	F7	RR1	
17	SC10-397RR	SC98-2070/SC01-783RR	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 78 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST VII FOR YEAR 2015**

STRAIN/ VARIETY	AVERAGE		YIELD †			PROTEIN‡			OIL ‡		
	RANK	RANK	2015	14-15	13-15	2015	14-15	13-15	2015	14-15	13-15
AGS-738RR	9	9	55.4	55.3	55.0	33.2	33.9	34.3	19.0	19.2	19.1
AG7733	3	6	57.5	55.3	.	34.2	34.9	.	18.9	18.9	.
N7003CN	6	7	56.8	54.3	53.8	34.3	34.8	34.9	19.2	19.3	19.3
NCC06-899	7	8	56.2	55.6	55.0	34.1	34.5	34.4	20.1	20.1	20.1
G11-2294R2	1	4	60.2	.	.	35.0	.	.	19.4	.	.
G11-2663R2	5	6	56.8	.	.	35.5	.	.	19.0	.	.
G11-2675R2	8	8	56.1	.	.	36.3	.	.	18.6	.	.
G11PR-56238R2	2	6	58.4	55.5	.	34.2	34.9	.	19.0	18.9	.
N05-316	12	11	52.8	52.4	.	35.5	36.2	.	19.4	19.3	.
N07-15529	17	15	48.2	.	.	36.3	.	.	18.2	.	.
N09-13534	11	10	52.9	.	50.9	36.2	.	36.5	19.3	.	19.2
N10-711	4	7	57.1	.	.	35.7	.	.	18.9	.	.
N10-1031	10	9	55.4	.	.	35.2	.	.	18.9	.	.
N10-7404	14	10	51.9	.	.	33.3	.	.	19.4	.	.
NLM09-77	13	12	52.5	.	.	39.1	.	.	18.4	.	.
SC09-052RR	16	14	50.2	48.6	49.6	34.4	34.9	35.0	19.6	19.5	19.4
SC10-397RR	15	13	50.5	50.1	.	34.5	34.8	.	18.6	18.8	.
Mean	.	.	54.6	.	.	35.1	.	.	19.0	.	.
LSD(0.05)	.	.	4.6	.	.	0.7	.	.	0.4	.	.
CV(%)	.	.	10.7	.	.	1.4	.	.	1.5	.	.

† Data not included in mean: 2015 – Clayton, NC; Clemson, SC; Tallassee, AL (A); Bossier City, LA
2014 – Clemson, SC; Tallassee, AL (A)
2013 – Florence, SC

‡Protein percentage and oil percentage data from 2013 and 2014 were converted from dry weight basis to a 13% moisture basis using a 0.87 conversion factor in order to calculate the multi-year averages.

TABLE 79 - GENERAL SUMMARY OF BOTANICAL TRAITS FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VII FOR YEAR 2015

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AGS-738RR	0	1.7	33	2.1	12.7			
AG7733	4	1.4	36	1.9	15.7			
N7003CN	4	1.9	36	2.2	15.9	W	T	
NCC06-899	5	2.2	34	1.9	14.7	W	G	
G11-2294R2	8	1.7	37	1.6	13.9	P	T	T
G11-2663R2	4	1.5	36	1.5	15.5	W	T	T
G11-2675R2	5	1.9	39	1.5	14.7	W	T	T
G11PR-56238R2	3	1.7	37	1.8	14.3	P	T	T
N05-316	2	1.7	33	1.6	13.7	W	G	
N07-15529	2	1.5	31	2.0	15.5	W	G	
N09-13534	4	2.2	37	1.7	16.3	P	G	
N10-711	9	1.3	31	1.6	15.0			
N10-1031	1	1.4	31	1.8	11.7			
N10-7404	2	1.9	33	2.3	13.9	W	G	
NLM09-77	-1	1.6	33	2.0	19.3	P	T	
SC09-052RR	8	2.3	40	1.4	13.9	W	G	T
SC10-397RR	11	1.5	39	1.7	14.5	P	G	T
Mean	4	1.7	35	1.8	14.8			
LSD(0.05)	2	0.3	2	0.4	0.8			
CV(%)	81	32.0	10	23.0	5.4			

**TABLE 80 - GENERAL SUMMARY OF PEST REACTION FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST VII FOR YEAR 2015**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK GA	SRK GA	SC RATING	SC SCORE	SDS DX
	Race 2	Race 3	Race 5					
AGS-738RR	4	1	1	3.8	1.0	MR	2.0	.
AG7733	4	4	3	3.3	1.0	R	1.0	.
N7003CN	1	1	1	4.5	1.3	S	5.0	.
NCC06-899	4	5	4	3.5	1.3	SS	3.0	.
G11-2294R2	3	4	1	3.0	1.0	R	1.0	.
G11-2663R2	5	2	3	2.3	1.0	MS	4.0	.
G11-2675R2	4	1	3	1.8	1.0	S	5.0	.
G11PR-56238R2	4	4	4	2.8	1.0	MS	4.0	.
N05-316	5	4	4	5.0	5.0	SS	3.0	.
N07-15529	4	4	4	4.5	1.0	S	5.0	.
N09-13534	4	4	4	4.5	3.8	R	1.0	.
N10-711	5	4	4	4.8	1.5	R	1.0	.
N10-1031	4	4	4	4.8	4.0	R	1.0	.
N10-7404	5	5	4	4.5	4.3	R	1.0	.
NLM09-77	4	4	4	4.0	1.0	R	1.0	.
SC09-052RR	5	4	3	4.8	1.0	MS	4.0	.
SC10-397RR	4	2	4	4.0	3.0	SS	3.0	.

†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 7, and HG Type 2.5.7, respectively.

TABLE 81 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS-738RR	31.8	40.2	40.2
AG7733	31.0	40.7	40.7
N7003CN	36.2	36.4	36.4
NCC06-899	43.6	39.3	39.3
G11-2294R2	37.7	47.3	47.3
G11-2663R2	40.6	43.5	43.5
G11-2675R2	37.1	34.7	34.7
G11PR-56238R2	39.5	42.5	42.5
N05-316	36.2	43.2	43.2
N07-15529	32.8	41.5	41.5
N09-13534	36.9	43.4	43.4
N10-711	46.9	47.4	47.4
N10-1031	41.9	47.0	47.0
N10-7404	30.8	43.4	43.4
NLM09-77	38.0	40.4	40.4
SC09-052RR	36.9	37.2	37.2
SC10-397RR	39.6	40.4	40.4
Mean	37.5	41.7	41.7
LSD(0.05)	10.1	7.1	7.1
CV(%)	16.2	9.9	9.9

TABLE 81 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Blackville, SC	Calhoun, GA	Clemson, ‡ SC	Fairhope, AL	Plains, GA	Tallassee, ‡ AL(A)	Tifton, GA	Area Mean
AGS-738RR	40.9	46.8	55.9	51.4	39.4	69.7	56.6	46.3	81.9	57.6
AG7733	39.6	44.2	59.3	53.3	42.7	73.8	62.4	31.5	86.5	59.9
N7003CN	42.7	52.7	55.4	57.6	37.0	71.1	55.8	35.3	82.5	59.7
NCC06-899	40.9	41.4	53.7	58.9	43.3	73.5	58.8	33.6	82.7	58.6
G11-2294R2	50.3	47.3	59.5	55.8	40.3	70.9	63.3	31.6	87.3	62.1
G11-2663R2	49.6	48.5	60.5	45.5	43.6	69.9	63.0	36.6	73.9	58.7
G11-2675R2	48.2	52.1	62.4	45.4	47.5	73.4	57.5	34.5	76.2	59.2
G11PR-56238R2	43.0	53.6	53.7	56.7	50.4	67.1	60.1	42.0	90.3	60.6
N05-316	41.3	45.6	50.8	39.0	44.0	65.6	61.8	31.6	75.1	54.2
N07-15529	30.4	41.5	48.4	45.9	28.4	62.7	54.5	22.0	61.0	49.2
N09-13534	36.0	45.6	52.5	47.3	42.7	68.1	57.9	30.0	72.3	54.3
N10-711	35.9	49.9	54.0	49.7	38.1	69.4	72.2	33.9	78.3	58.5
N10-1031	33.4	49.1	52.8	44.1	40.0	64.7	66.6	35.1	85.5	56.6
N10-7404	29.4	51.0	57.8	38.5	36.1	69.9	44.8	24.9	80.1	53.1
NLM09-77	39.2	42.9	51.3	48.3	45.5	65.7	61.8	23.7	70.0	54.2
SC09-052RR	39.1	41.1	49.6	43.1	40.0	68.0	56.3	33.4	66.9	52.0
SC10-397RR	32.4	45.2	57.4	39.9	31.2	64.1	52.9	21.1	71.3	51.9
Mean	39.6	47.0	55.0	48.3	40.6	68.7	59.2	32.2	77.7	56.5
LSD(0.05)	6.8	6.9	7.1	9.9	13.8	6.2	6.3	13.8	7.5	5.0
CV(%)	10.3	8.8	7.7	12.3	20.5	5.4	6.4	25.9	5.8	10.4

‡Data not included in mean: 2015 – Clemson, SC; Tallassee, AL(A)

TABLE 81 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VII FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AGS-738RR	39.6	39.6
AG7733	34.5	34.5
N7003CN	42.2	42.2
NCC06-899	41.8	41.8
G11-2294R2	42.2	42.2
G11-2663R2	48.0	48.0
G11-2675R2	48.8	48.8
G11PR-56238R2	33.7	33.7
N05-316	39.1	39.1
N07-15529	36.5	36.5
N09-13534	38.9	38.9
N10-711	44.9	44.9
N10-1031	36.7	36.7
N10-7404	44.6	44.6
NLM09-77	34.1	34.1
SC09-052RR	42.5	42.5
SC10-397RR	34.5	34.5
Mean	40.1	.
LSD(0.05)	10.8	.
CV(%)	16.1	.

TABLE 82 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Fairhope, AL	Plains, GA	Tallassee, AL(A)	Test Mean
AGS-738RR	17.8	19.9	19.5	18.7	19.0
AG7733	18.0	19.4	19.0	19.0	18.9
N7003CN	18.6	19.7	19.6	19.0	19.2
NCC06-899	19.1	20.6	20.7	19.8	20.1
G11-2294R2	18.5	19.8	19.7	19.4	19.4
G11-2663R2	18.3	19.4	19.2	19.1	19.0
G11-2675R2	17.9	18.9	18.5	18.9	18.6
G11PR-56238R2	18.0	19.3	19.3	19.2	19.0
N05-316	18.9	20.0	19.5	19.0	19.4
N07-15529	17.4	18.6	18.8	17.8	18.2
N09-13534	18.1	19.6	20.1	19.3	19.3
N10-711	18.5	19.3	19.2	18.4	18.9
N10-1031	18.1	19.1	19.5	18.7	18.9
N10-7404	18.4	19.7	20.4	19.0	19.4
NLM09-77	17.7	18.8	18.5	18.6	18.4
SC09-052RR	18.8	20.2	19.7	19.6	19.6
SC10-397RR	18.3	19.2	18.9	18.1	18.6
Mean	18.3	19.5	19.4	18.9	.

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

TABLE 83 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Fairhope, AL	Plains, GA	Tallassee, AL(A)	Test Mean
AGS-738RR	33.5	33.0	33.8	32.4	33.2
AG7733	35.4	34.3	34.7	32.5	34.2
N7003CN	34.7	34.2	35.1	33.2	34.3
NCC06-899	34.9	33.4	34.9	33.0	34.1
G11-2294R2	36.4	35.0	35.2	33.5	35.0
G11-2663R2	36.4	35.6	35.5	34.5	35.5
G11-2675R2	37.3	36.2	36.5	35.2	36.3
G11PR-56238R2	35.2	34.3	34.3	33.1	34.2
N05-316	36.1	34.8	35.4	35.6	35.5
N07-15529	36.4	36.2	36.4	36.1	36.3
N09-13534	37.2	35.7	36.5	35.2	36.2
N10-711	36.6	35.2	35.1	35.7	35.7
N10-1031	35.3	34.9	35.2	35.4	35.2
N10-7404	34.2	33.0	33.6	32.4	33.3
NLM09-77	39.2	38.9	40.0	38.4	39.1
SC09-052RR	35.7	34.3	34.6	33.1	34.4
SC10-397RR	35.0	34.3	34.3	34.3	34.5
Mean	35.9	34.9	35.4	34.3	.

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

TABLE 84 - SIZE (GRAMS PER 100 SEED) FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Blackville, SC	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Fairhope, AL	Kinston, NC	Plains, GA	Tallassee, AL(A)	Tifton, GA	Test Mean
AGS-738RR	.	.	.	11.9	12.6	11.4	.	13.9	14.7	12.3	9.6	15.1	12.7
AG7733	.	.	.	12.1	16.1	16.3	.	18.0	15.8	16.3	12.0	18.9	15.7
N7003CN	.	.	.	13.2	16.7	14.6	.	17.2	17.0	16.8	11.7	19.6	15.9
NCC06-899	.	.	.	12.9	15.0	13.4	.	16.7	13.8	15.0	12.0	18.8	14.7
G11-2294R2	.	.	.	11.4	14.6	14.1	.	15.9	13.2	14.6	10.3	17.0	13.9
G11-2663R2	.	.	.	13.4	16.1	16.1	.	17.6	15.2	16.4	12.3	17.1	15.5
G11-2675R2	.	.	.	13.3	15.3	14.7	.	16.2	14.8	14.7	12.1	16.5	14.7
G11PR-56238R2	.	.	.	11.7	14.4	14.3	.	15.5	15.2	14.5	11.6	17.0	14.3
N05-316	.	.	.	13.1	13.7	14.4	.	14.7	13.3	13.2	11.4	15.6	13.7
N07-15529	.	.	.	12.4	15.9	16.4	.	17.3	15.4	16.3	12.9	17.5	15.5
N09-13534	.	.	.	13.2	16.2	17.8	.	17.5	18.4	16.2	13.6	17.7	16.3
N10-711	.	.	.	13.3	15.0	15.7	.	16.6	15.0	15.5	11.7	16.9	15.0
N10-1031	.	.	.	10.6	10.8	12.2	.	12.8	12.0	11.8	9.2	13.7	11.7
N10-7404	.	.	.	12.3	14.3	13.9	.	15.6	15.0	12.9	11.3	16.0	13.9
NLM09-77	.	.	.	14.5	19.6	20.8	.	20.3	21.7	20.0	16.1	21.1	19.3
SC09-052RR	.	.	.	12.6	14.1	13.7	.	15.6	12.9	14.5	11.1	16.4	13.9
SC10-397RR	.	.	.	12.0	14.8	15.2	.	15.4	15.5	15.1	11.4	16.8	14.5
Mean	.	.	.	12.6	15.0	15.0	.	16.3	15.2	15.1	11.8	17.2	.

TABLE 85 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS-738RR	10/18	10/25	10/22
AG7733	7	6	6
N7003CN	6	5	5
NCC06-899	8	3	5
G11-2294R2	14	5	9
G11-2663R2	11	5	8
G11-2675R2	10	4	6
G11PR-56238R2	9	2	5
N05-316	7	4	5
N07-15529	3	-3	0
N09-13534	10	5	7
N10-711	15	10	12
N10-1031	7	2	4
N10-7404	7	1	4
NLM09-77	-1	1	0
SC09-052RR	14	7	10
SC10-397RR	13	10	11
Mean	8	4	6

TABLE 85 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Calhoun, GA	Clemson, SC	Fairhope, AL	Tallassee, AL(A)	Tifton, GA	Area Mean
AGS-738RR	10/15	10/26	10/20	11/4	10/17	10/19	10/12	10/20
AG7733	8	5	5	4	2	1	6	4
N7003CN	7	5	14	2	4	-3	4	5
NCC06-899	6	4	11	4	5	0	6	5
G11-2294R2	12	10	1	8	9	9	9	8
G11-2663R2	10	5	-2	3	2	1	4	3
G11-2675R2	9	4	4	4	2	3	4	4
G11PR-56238R2	4	2	1	1	0	1	6	2
N05-316	5	3	4	2	0	-3	3	2
N07-15529	0	4	4	4	7	-1	-1	2
N09-13534	5	6	2	5	2	2	4	4
N10-711	11	7	8	7	8	12	9	9
N10-1031	3	3	-1	0	-1	-4	4	1
N10-7404	3	2	5	0	-1	-1	1	1
NLM09-77	-1	1	2	0	2	-6	-9	-2
SC09-052RR	13	10	9	6	9	4	8	8
SC10-397RR	10	19	16	10	10	11	9	12
Mean	6	5	5	3	4	2	4	4

TABLE 85 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AGS-738RR	10/15	10/15
AG7733	1	1
N7003CN	1	1
NCC06-899	0	0
G11-2294R2	2	2
G11-2663R2	4	4
G11-2675R2	2	2
G11PR-56238R2	-1	-1
N05-316	-1	-1
N07-15529	-1	-1
N09-13534	2	2
N10-711	5	5
N10-1031	-1	-1
N10-7404	0	0
NLM09-77	0	0
SC09-052RR	4	4
SC10-397RR	2	2
Mean	1	1

TABLE 86 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS-738RR	36	41	39
AG7733	38	43	40
N7003CN	35	40	38
NCC06-899	35	38	36
G11-2294R2	36	42	39
G11-2663R2	39	43	41
G11-2675R2	36	46	42
G11PR-56238R2	36	44	40
N05-316	29	40	35
N07-15529	27	36	32
N09-13534	41	41	40
N10-711	33	39	36
N10-1031	32	39	35
N10-7404	35	38	36
NLM09-77	34	36	35
SC09-052RR	37	47	43
SC10-397RR	34	47	41
Mean	35	41	.

TABLE 86 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Blackville, SC	Calhoun, GA	Clemson, SC	Fairhope, AL	Plains, GA	Tallassee, AL(A)	Tifton, GA	Area Mean
AGS-738RR	30	.	.	39	32	31	.	26	33	32
AG7733	28	.	.	43	31	40	.	30	37	35
N7003CN	31	.	.	43	37	37	.	29	34	35
NCC06-899	29	.	.	43	30	34	.	24	34	33
G11-2294R2	34	.	.	42	35	41	.	26	40	36
G11-2663R2	32	.	.	40	35	37	.	25	37	34
G11-2675R2	34	.	.	44	36	40	.	29	42	37
G11PR-56238R2	32	.	.	42	33	34	.	29	42	35
N05-316	31	.	.	40	34	32	.	24	32	32
N07-15529	25	.	.	44	30	29	.	21	31	30
N09-13534	34	.	.	43	37	37	.	29	37	36
N10-711	24	.	.	39	35	28	.	24	29	30
N10-1031	23	.	.	42	31	30	.	24	30	30
N10-7404	28	.	.	40	33	32	.	22	33	31
NLM09-77	30	.	.	44	33	34	.	21	30	32
SC09-052RR	35	.	.	41	36	44	.	33	41	38
SC10-397RR	31	.	.	42	35	44	.	31	46	38
Mean	30	.	.	42	34	36	.	26	36	.

TABLE 86 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AGS-738RR	32	32
AG7733	34	34
N7003CN	36	36
NCC06-899	37	37
G11-2294R2	41	41
G11-2663R2	41	41
G11-2675R2	40	40
G11PR-56238R2	38	38
N05-316	33	33
N07-15529	32	32
N09-13534	39	39
N10-711	33	33
N10-1031	33	33
N10-7404	37	37
NLM09-77	37	37
SC09-052RR	43	43
SC10-397RR	41	41
Mean	37	.

TABLE 87 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS-738RR	2.0	2.2	2.1
AG7733	1.5	2.0	1.8
N7003CN	1.8	2.5	2.1
NCC06-899	2.5	2.5	2.5
G11-2294R2	1.5	2.0	1.8
G11-2663R2	2.0	2.0	2.0
G11-2675R2	2.5	2.5	2.5
G11PR-56238R2	2.0	2.2	2.1
N05-316	1.5	2.0	1.8
N07-15529	1.3	2.0	1.6
N09-13534	2.3	2.2	2.3
N10-711	1.0	1.7	1.4
N10-1031	1.0	1.7	1.4
N10-7404	1.5	2.0	1.8
NLM09-77	2.0	2.0	2.0
SC09-052RR	2.5	2.5	2.5
SC10-397RR	1.0	2.0	1.5
Mean	1.8	2.1	.

TABLE 87 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Blackville, SC	Calhoun, GA	Clemson, SC	Fairhope, AL	Plains, GA	Tallassee, AL(A)	Tifton, GA	Area Mean
AGS-738RR	1.0	.	.	2.3	2.3	1.3	3.0	1.0	1.3	1.8
AG7733	1.0	.	.	1.3	2.3	1.3	1.3	1.0	1.3	1.4
N7003CN	1.0	.	.	1.7	4.0	2.0	2.0	1.3	1.7	2.0
NCC06-899	1.0	.	.	1.7	3.3	2.3	2.7	1.5	2.7	2.2
G11-2294R2	1.3	.	.	1.7	2.7	2.0	2.0	1.0	1.3	1.7
G11-2663R2	1.0	.	.	1.7	2.7	1.0	1.7	1.0	1.0	1.4
G11-2675R2	2.0	.	.	1.3	2.7	2.3	2.7	1.2	1.3	1.9
G11PR-56238R2	1.0	.	.	2.3	2.7	1.7	2.3	1.0	1.3	1.8
N05-316	1.3	.	.	2.3	3.3	1.3	2.3	1.2	1.0	1.8
N07-15529	1.0	.	.	1.7	2.7	1.7	1.7	1.0	1.0	1.5
N09-13534	1.7	.	.	2.0	3.0	2.7	2.7	1.3	2.3	2.2
N10-711	1.0	.	.	2.0	2.3	1.0	1.0	1.0	1.0	1.3
N10-1031	1.0	.	.	1.7	2.7	1.0	1.3	1.0	1.0	1.4
N10-7404	1.0	.	.	2.5	3.7	2.0	2.3	1.0	1.7	2.0
NLM09-77	1.0	.	.	1.3	3.0	1.3	2.0	1.0	1.0	1.5
SC09-052RR	1.7	.	.	2.3	3.0	3.0	2.7	1.5	2.3	2.4
SC10-397RR	1.0	.	.	2.2	2.0	1.7	1.7	1.2	1.0	1.5
Mean	1.2	.	.	1.9	2.8	1.7	2.1	1.1	1.4	.

TABLE 87 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AGS-738RR	1.0	1.0
AG7733	1.0	1.0
N7003CN	1.0	1.0
NCC06-899	1.7	1.7
G11-2294R2	1.3	1.3
G11-2663R2	1.0	1.0
G11-2675R2	1.0	1.0
G11PR-56238R2	1.0	1.0
N05-316	1.0	1.0
N07-15529	1.0	1.0
N09-13534	1.7	1.7
N10-711	1.0	1.0
N10-1031	1.0	1.0
N10-7404	1.0	1.0
NLM09-77	1.0	1.0
SC09-052RR	1.3	1.3
SC10-397RR	1.3	1.3
Mean	1.1	.

TABLE 88 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS-738RR	1.5	2.5	2.0
AG7733	1.5	2.0	1.8
N7003CN	2.0	3.0	2.5
NCC06-899	1.5	2.0	1.8
G11-2294R2	1.0	2.0	1.5
G11-2663R2	1.0	2.0	1.5
G11-2675R2	1.5	1.5	1.5
G11PR-56238R2	1.5	2.0	1.8
N05-316	1.0	1.0	1.0
N07-15529	1.5	2.5	2.0
N09-13534	1.5	1.5	1.5
N10-711	1.5	2.0	1.8
N10-1031	1.5	2.0	1.8
N10-7404	2.0	3.5	2.8
NLM09-77	2.0	1.5	1.8
SC09-052RR	1.0	1.5	1.3
SC10-397RR	1.5	2.0	1.8
Mean	1.5	2.0	.

TABLE 88 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Blackville, SC	Calhoun, GA	Clemson, SC	Fairhope, AL	Plains, GA	Tallassee, AL(A)	Tifton, GA	Area Mean
AGS-738RR	.	.	.	2.2	.	2.0	3.8	1.5	1.5	2.2
AG7733	.	.	.	2.3	.	1.5	3.0	1.7	1.3	2.0
N7003CN	.	.	.	2.3	.	1.5	3.7	1.8	2.2	2.3
NCC06-899	.	.	.	2.5	.	1.5	3.0	1.5	1.2	1.9
G11-2294R2	.	.	.	2.2	.	1.5	2.3	1.5	1.0	1.7
G11-2663R2	.	.	.	1.3	.	1.5	1.8	1.5	1.3	1.5
G11-2675R2	.	.	.	1.5	.	1.5	2.0	1.5	1.0	1.5
G11PR-56238R2	.	.	.	1.8	.	1.5	2.8	1.5	1.5	1.8
N05-316	.	.	.	2.0	.	1.5	2.7	1.5	1.3	1.8
N07-15529	.	.	.	2.2	.	2.0	2.7	1.8	1.8	2.1
N09-13534	.	.	.	1.5	.	2.0	3.0	1.3	1.7	1.9
N10-711	.	.	.	1.5	.	1.5	2.2	1.0	1.2	1.5
N10-1031	.	.	.	2.0	.	1.5	3.2	1.5	1.2	1.9
N10-7404	.	.	.	2.3	.	2.0	4.2	1.5	2.0	2.4
NLM09-77	.	.	.	1.7	.	1.5	3.5	1.8	2.0	2.1
SC09-052RR	.	.	.	2.0	.	1.5	1.7	1.0	1.0	1.4
SC10-397RR	.	.	.	1.7	.	1.5	2.7	1.5	1.3	1.7
Mean	.	.	.	1.9	.	1.6	2.8	1.5	1.4	.

TABLE 88 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VII FOR YEAR 2015

West

STRAIN/ VARIETY	Bossier City, LA	Area Mean
AGS-738RR	2.0	2.0
AG7733	2.0	2.0
N7003CN	1.0	1.0
NCC06-899	2.0	2.0
G11-2294R2	1.5	1.5
G11-2663R2	2.0	2.0
G11-2675R2	1.5	1.5
G11PR-56238R2	2.0	2.0
N05-316	1.0	1.0
N07-15529	1.0	1.0
N09-13534	1.0	1.0
N10-711	2.0	2.0
N10-1031	1.5	1.5
N10-7404	1.0	1.0
NLM09-77	2.0	2.0
SC09-052RR	2.0	2.0
SC10-397RR	2.0	2.0
Mean	1.6	.

TABLE 89 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	F_n	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AGS-738RR	G99-4158 x P97M50		RR1	
2	AG7733	Commercial check		RR1	
3	N7003CN	Cook x Anand		Conv	Resistant to all field races of SCN
4	NCC06-899	R97-1634 x N97-9693		Conv	12.5% exotic from PI 416937-USDA CHECK
5	G12-1784R2	G00-3880(4) x RR2Y	F5d	RR2	
6	G12-1816R2	G00-3880(4) x RR2Y	F5d	RR2	
7	G12-2062R2	G00-3880 x [G00-3213(3) x RR2Y]	F5d	RR2	
8	G12-2103R2	G00-3213 x [G00-3880(3) x RR2Y]	F5d	RR2	
9	G12-2554R2	G00-3213 x [G00-3880(3) x RR2Y]	F5d	RR2	
10	G12-2731R2	N05-7452 x [G00-3213(3) x RR2Y]	F5d	RR2	
11	G12-3698R2	N02-7084 x [G00-3213 x RR2Y]	F6d	RR2	
12	N05-7380	N7002 x N98-7265	F4	Conv	Drought 12.5% PI 416937, 25% PI 471938
13	N09-13884	TCPR-83 x N01-11136	F4	Conv	Drought 12.5% PI 416937, 25%PI 407948
14	N09-13890	TCPR-83 x N01-11136	F4	Conv	Drought 12.5% PI 416937, 25%PI 407948
15	N10-764	N03-893 x G00-3213		Conv	Diversity 12.5% 416937
16	N10-792	N03-893 x G00-3213		Conv	Diversity 12.5% 416937
17	N10-7320	N03-11936 x BOGGS	F4	Conv	Drought 25% PI 471931
18	N10-7365	N01-11136 x N98-7265	F4	Conv	Drought 25% PI 471938, 12.5% 416937
19	N11-7046	NC-Roy x LD00-3309	F4	Conv	50% Midwestern pedigree
20	N11-8042	SC97-1821 x MN0302	F4	Conv	
21	N11-10289	N01-11298 x N04-9646	F4	Conv	12.5% 416937
22	N11-10295	N01-11298 x N04-9646	F4	Conv	12.5% 416937
23	N11-10605	NC-Roy x PI 612717	F4	Conv	50% PI 612717
24	N11-10610	NC-Roy x PI 612717	F4	Conv	50% PI 612717
25	SC10-29	SC98-1850/Manokin(2)		Conv	LJ
26	SC10-154	SC98-1850/Manokin(2)		Conv	LJ
27	SC10-179	SC98-1850/Manokin(2)		Conv	LJ
28	SC10-260	SC98-1930/Manokin(2)		Conv	LJ
29	SC10-406RR	SC98-2070/SC01-783RR		RR1	LJ
30	TCWN05/06-5068	Cook x SC97-1821	F4	Conv	Resistance to Mn deficiency

†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 FOR STRAIN/VARIETY
GROWN IN PRELIMINARY TEST VII FOR YEAR 2015**

STRAIN/ VARIETY	SEED		AVG.	MAT.	SEED			%	%	SCN Cyst Score (1-5 Scale) [†]			SC	SC	FL	PUB.	POD	
	YIELD	RANK	RANK	INDEX	LODGING	HEIGHT	QUALITY	SIZE	PROTEIN [†]	OIL [†]	Race 2	Race 3	Race 5	RATING	SCORE	COLOR	COLOR	COLOR
AGS-738RR	49.0	3	6	0	1.7	34	2.8	10.7	32.7	19.3	4	1	4	MR	2			
AG7733	44.5	14	14	5	1.5	35	2.3	13.3	34.0	18.5	4	5	5	R	1			
N7003CN	45.5	7	12	5	1.8	35	2.6	14.2	34.4	19.2	1	1	1	S	5	W	T	
NCC06-899	43.4	17	14	2	2.3	33	2.3	13.0	33.8	19.9	5	5	5	SS	3	W	G	
G12-1784R2	46.7	6	7	2	1.8	37	2.3	12.0	34.7	18.8	5	4	5	R	1	P	T	T
G12-1816R2	44.9	10	12	1	1.9	39	2.3	12.1	34.6	18.6	5	4	5	S	5	P	T	T
G12-2062R2	45.1	8	11	5	2.1	36	2.0	12.7	36.0	18.3	5	3	5	MS	4	P	T	T
G12-2103R2	52.8	1	5	6	1.4	38	1.8	14.4	35.2	18.7	5	3	5	SS	3	W	T	T
G12-2554R2	44.3	15	15	3	1.6	40	2.5	12.4	35.7	18.0	4	4	5	SS	3	P	T	T
G12-2731R2	44.8	12	16	5	2.4	38	2.5	10.7	35.3	19.0	5	4	5	R	1	P	T	T
G12-3698R2	44.8	11	13	3	2.0	38	3.0	12.7	34.2	18.9	5	1	2	S	5	P	T	T
N05-7380	38.9	25	19	4	1.9	31	2.5	11.3	33.9	20.0	5	5	5	R	1	W	G	
N09-13884	42.3	19	19	3	1.5	35	2.5	12.3	35.2	18.2	5	5	5	R	1	P	T	
N09-13890	44.9	9	14	4	1.4	34	2.5	12.8	34.9	18.7	5	4	5	R	1	P	T	
N10-764	46.9	5	12	2	1.6	33	2.8	12.9	33.9	20.1	5	5	5	S	5			
N10-792	50.5	2	10	6	1.4	34	2.3	13.6	34.9	19.7	4	5	5	R	1			
N10-7320	37.8	26	23	5	3.1	36	2.5	11.5	34.7	18.4	4	5	5	R	1	W	G	
N10-7365	44.6	13	13	3	1.7	34	2.5	14.1	34.3	19.7	4	5	5	R	1	W	G	
N11-7046	47.8	4	7	3	2.4	36	2.5	10.2	34.9	18.8	5	5	5	R	1	W	G	
N11-8042	43.6	16	15	0	1.3	33	2.8	13.9	35.4	19.4	5	5	5	R	1	P	T	
N11-10289	37.8	27	24	3	1.9	34	2.3	12.1	36.0	18.4	5	5	5	R	1	W	T	
N11-10295	41.3	20	21	3	1.9	36	2.3	10.2	36.2	18.1	5	5	5	R	1	W	G	
N11-10605	39.9	24	20	2	2.0	28	2.2	11.7	33.1	19.4	5	5	5	R	1	W	G	
N11-10610	40.7	21	19	2	1.9	28	2.8	10.6	34.2	18.9	4	5	5	S	5	W	G	
SC10-29	36.6	28	23	-5	1.5	29	3.2	13.6	35.0	19.2	4	1	4	SS	3	W	G	
SC10-154	33.1	29	27	-5	1.6	30	3.5	14.7	34.6	20.0	4	1	5	S	5	W	G	
SC10-179	40.5	22	17	-3	1.7	32	2.7	15.5	33.9	20.0	4	2	5	MS	4	W	G	
SC10-260	32.5	30	27	-7	1.8	29	3.5	14.1	35.4	19.7	3	1	2	SS	3	W	G	
SC10-406RR	40.4	23	18	7	1.4	35	2.3	13.3	35.2	18.4	4	5	5	R	1	P	G	
TCWN05/06-506E	42.8	18	17	8	1.9	41	2.8	15.0	34.9	18.9	4	5	5	R	1	W	T	
Mean	43.0	.	.	2	1.8	34	2.5	12.7	34.7	19.0	.	.	.	.	.	.	.	.
LSD(0.05)	7.2	.	.	3	.	4	0.8	1.7	1.7	1.2	.	.	.	.	.	.	.	.
CV(%)	14.9	.	.	113	.	9	15.4	8.1	2.4	3.0	.	.	.	.	.	.	.	.

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

[‡]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 7, and HG Type 2.5.7, respectively.

TABLE 91 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, ‡ AL(A)	Test Mean
AGS-738RR	46.8	41.7	65.2	43.1	39.2	49.0
AG7733	46.2	36.8	61.7	33.3	40.8	44.5
N7003CN	51.8	39.5	59.7	30.9	39.4	45.5
NCC06-899	43.2	38.9	63.6	27.9	35.7	43.4
G12-1784R2	48.6	40.2	63.6	34.4	46.0	46.7
G12-1816R2	47.2	38.7	60.6	32.8	47.7	44.9
G12-2062R2	50.5	42.3	54.4	33.3	36.6	45.1
G12-2103R2	57.4	38.0	66.9	48.8	46.2	52.8
G12-2554R2	50.6	35.9	63.7	27.1	29.6	44.3
G12-2731R2	55.7	37.1	56.4	29.8	42.2	44.8
G12-3698R2	53.2	39.9	56.6	29.6	40.0	44.8
N05-7380	28.9	43.2	57.4	26.3	31.9	38.9
N09-13884	42.2	33.9	61.0	32.2	33.8	42.3
N09-13890	43.1	36.6	62.1	37.7	36.2	44.9
N10-764	55.2	37.5	57.7	37.2	23.4	46.9
N10-792	57.6	35.2	62.4	46.6	34.7	50.5
N10-7320	38.6	38.2	50.8	23.7	36.6	37.8
N10-7365	40.3	37.9	62.9	37.2	30.2	44.6
N11-7046	49.0	44.2	62.2	35.9	36.3	47.8
N11-8042	43.3	36.9	62.9	31.7	36.3	43.6
N11-10289	33.9	34.9	51.7	30.5	26.9	37.8
N11-10295	43.9	34.5	57.3	29.4	31.9	41.3
N11-10605	41.8	38.7	59.1	19.8	32.0	39.9
N11-10610	43.2	39.0	58.7	22.1	21.3	40.7
SC10-29	31.5	39.5	50.0	25.5	28.9	36.6
SC10-154	31.2	36.9	40.7	23.4	17.2	33.1
SC10-179	36.5	42.1	50.7	32.8	33.5	40.5
SC10-260	25.7	35.5	40.2	28.6	28.3	32.5
SC10-406RR	35.6	40.3	57.7	27.8	33.2	40.4
TCWN05/06-5068	46.1	38.1	60.2	27.0	38.9	42.8
Mean	44.0	38.4	57.9	31.6	34.5	43.0
LSD(0.05)	8.0	8.1	6.0	8.1	13.9	7.2
CV(%)	11.1	12.9	6.3	15.4	24.7	14.9

‡Data not included in mean: 2015 – Tallassee, AL(A)

**TABLE 92 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN
PRELIMINARY GROUP VII FOR YEAR 2015**

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	.	.	20.0	.	18.6	19.3
AG7733	.	.	18.8	.	18.1	18.5
N7003CN	.	.	19.6	.	18.7	19.2
NCC06-899	.	.	20.3	.	19.5	19.9
G12-1784R2	.	.	19.3	.	18.2	18.8
G12-1816R2	.	.	19.1	.	18.1	18.6
G12-2062R2	.	.	18.5	.	18.1	18.3
G12-2103R2	.	.	18.7	.	18.6	18.7
G12-2554R2	.	.	17.8	.	18.1	18.0
G12-2731R2	.	.	19.1	.	18.9	19.0
G12-3698R2	.	.	18.7	.	19.0	18.9
N05-7380	.	.	20.5	.	19.5	20.0
N09-13884	.	.	18.8	.	17.6	18.2
N09-13890	.	.	19.5	.	17.9	18.7
N10-764	.	.	20.0	.	20.1	20.1
N10-792	.	.	20.0	.	19.3	19.7
N10-7320	.	.	18.9	.	17.8	18.4
N10-7365	.	.	20.2	.	19.2	19.7
N11-7046	.	.	19.5	.	18.0	18.8
N11-8042	.	.	19.6	.	19.1	19.4
N11-10289	.	.	18.4	.	18.4	18.4
N11-10295	.	.	18.3	.	17.8	18.1
N11-10605	.	.	19.5	.	19.2	19.4
N11-10610	.	.	19.3	.	18.5	18.9
SC10-29	.	.	18.8	.	19.5	19.2
SC10-154	.	.	18.9	.	21.0	20.0
SC10-179	.	.	20.4	.	19.6	20.0
SC10-260	.	.	19.4	.	19.9	19.7
SC10-406RR	.	.	19.0	.	17.7	18.4
TCWN05/06-5068	.	.	19.8	.	17.9	18.9
Mean	.	.	19.3	.	18.7	.

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

TABLE 93 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	.	.	33.4	.	32.1	32.7
AG7733	.	.	34.4	.	33.6	34.0
N7003CN	.	.	35.3	.	33.5	34.4
NCC06-899	.	.	34.7	.	32.9	33.8
G12-1784R2	.	.	34.6	.	34.8	34.7
G12-1816R2	.	.	35.1	.	34.2	34.6
G12-2062R2	.	.	36.8	.	35.3	36.0
G12-2103R2	.	.	36.0	.	34.5	35.2
G12-2554R2	.	.	36.9	.	34.6	35.7
G12-2731R2	.	.	36.2	.	34.5	35.3
G12-3698R2	.	.	35.0	.	33.4	34.2
N05-7380	.	.	33.7	.	34.1	33.9
N09-13884	.	.	35.2	.	35.3	35.2
N09-13890	.	.	35.1	.	34.8	34.9
N10-764	.	.	34.7	.	33.1	33.9
N10-792	.	.	35.1	.	34.7	34.9
N10-7320	.	.	34.9	.	34.5	34.7
N10-7365	.	.	34.8	.	33.9	34.3
N11-7046	.	.	34.9	.	35.0	34.9
N11-8042	.	.	35.5	.	35.4	35.4
N11-10289	.	.	37.1	.	35.0	36.0
N11-10295	.	.	36.7	.	35.7	36.2
N11-10605	.	.	33.9	.	32.3	33.1
N11-10610	.	.	35.1	.	33.4	34.2
SC10-29	.	.	36.8	.	33.3	35.0
SC10-154	.	.	36.8	.	32.5	34.6
SC10-179	.	.	35.2	.	32.7	33.9
SC10-260	.	.	37.4	.	33.5	35.4
SC10-406RR	.	.	35.4	.	35.0	35.2
TCWN05/06-5068	.	.	34.8	.	35.1	34.9
Mean	.	.	35.4	.	34.1	.

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

TABLE 94 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	.	11.0	.	11.4	9.7	10.7
AG7733	.	14.3	.	13.4	12.3	13.3
N7003CN	.	16.2	.	13.8	12.6	14.2
NCC06-899	.	13.4	.	13.6	11.9	13.0
G12-1784R2	.	11.8	.	13.1	11.1	12.0
G12-1816R2	.	12.6	.	12.3	11.3	12.1
G12-2062R2	.	13.2	.	13.5	11.5	12.7
G12-2103R2	.	14.9	.	15.0	13.4	14.4
G12-2554R2	.	14.1	.	11.9	11.1	12.4
G12-2731R2	.	11.0	.	11.2	9.8	10.7
G12-3698R2	.	14.8	.	12.3	10.9	12.7
N05-7380	.	10.8	.	11.4	11.8	11.3
N09-13884	.	12.5	.	13.2	11.2	12.3
N09-13890	.	14.3	.	12.6	11.5	12.8
N10-764	.	13.2	.	13.2	12.3	12.9
N10-792	.	13.1	.	14.4	13.4	13.6
N10-7320	.	12.7	.	11.5	10.4	11.5
N10-7365	.	15.0	.	13.5	13.7	14.1
N11-7046	.	11.6	.	9.6	9.5	10.2
N11-8042	.	13.4	.	14.4	13.9	13.9
N11-10289	.	13.7	.	12.3	10.3	12.1
N11-10295	.	11.5	.	8.7	10.3	10.2
N11-10605	.	12.2	.	11.4	11.4	11.7
N11-10610	.	11.7	.	9.6	10.4	10.6
SC10-29	.	14.4	.	15.4	11.0	13.6
SC10-154	.	14.4	.	16.9	12.7	14.7
SC10-179	.	15.8	.	17.3	13.4	15.5
SC10-260	.	14.4	.	16.6	11.4	14.1
SC10-406RR	.	14.3	.	13.7	11.8	13.3
TCWN05/06-5068	.	17.6	.	14.7	12.6	15.0
Mean	.	13.5	.	13.1	11.6	.

TABLE 95 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	10/17	10/23	.	10/22	10/20	10/20
AG7733	8	4	.	7	1	5
N7003CN	7	7	.	5	0	5
NCC06-899	7	3	.	1	-4	2
G12-1784R2	4	1	.	3	0	2
G12-1816R2	5	2	.	1	-1	1
G12-2062R2	9	6	.	3	2	5
G12-2103R2	9	6	.	7	3	6
G12-2554R2	6	4	.	3	1	3
G12-2731R2	10	3	.	6	2	5
G12-3698R2	6	7	.	2	0	3
N05-7380	9	4	.	5	-1	4
N09-13884	6	2	.	8	-3	3
N09-13890	6	3	.	7	1	4
N10-764	5	2	.	1	-1	2
N10-792	11	5	.	8	0	6
N10-7320	9	6	.	3	2	5
N10-7365	6	5	.	5	-4	3
N11-7046	4	3	.	5	-1	3
N11-8042	5	0	.	-6	1	0
N11-10289	5	5	.	4	-1	3
N11-10295	6	3	.	4	-1	3
N11-10605	5	2	.	1	-2	2
N11-10610	6	3	.	6	-5	2
SC10-29	-7	0	.	-9	-4	-5
SC10-154	-2	-3	.	-8	-6	-5
SC10-179	-5	-2	.	-4	-2	-3
SC10-260	-6	-2	.	-11	-7	-7
SC10-406RR	8	7	.	7	5	7
TCWN05/06-5068	11	11	.	9	3	8
Mean	5	3	.	2	-1	.

TABLE 96 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	30	40	.	43	24	34
AG7733	30	41	.	44	27	35
N7003CN	30	44	.	34	28	35
NCC06-899	30	37	.	42	24	33
G12-1784R2	33	45	.	47	27	37
G12-1816R2	34	49	.	46	29	39
G12-2062R2	31	45	.	42	27	36
G12-2103R2	31	46	.	46	28	37
G12-2554R2	34	49	.	53	28	40
G12-2731R2	36	41	.	48	29	38
G12-3698R2	33	45	.	46	28	38
N05-7380	29	35	.	39	22	31
N09-13884	33	40	.	39	27	35
N09-13890	31	40	.	40	26	34
N10-764	29	38	.	39	26	33
N10-792	32	40	.	40	25	34
N10-7320	33	39	.	46	29	36
N10-7365	27	39	.	50	23	34
N11-7046	31	45	.	37	30	36
N11-8042	28	38	.	48	24	33
N11-10289	28	39	.	42	26	33
N11-10295	31	43	.	38	31	36
N11-10605	24	33	.	30	23	28
N11-10610	25	35	.	34	20	28
SC10-29	23	34	.	29	27	29
SC10-154	25	34	.	37	26	30
SC10-179	27	39	.	35	27	32
SC10-260	24	34	.	34	24	29
SC10-406RR	29	39	.	38	31	35
TCWN05/06-5068	36	50	.	48	32	41
Mean	30	40	.	41	27	.

TABLE 97 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	1.0	1.8	2.0	3.0	1.0	1.7
AG7733	1.0	1.8	1.3	2.5	1.2	1.5
N7003CN	1.0	2.3	2.3	2.3	1.2	1.8
NCC06-899	1.7	2.3	3.0	3.3	1.3	2.3
G12-1784R2	1.3	2.0	1.7	3.3	1.0	1.8
G12-1816R2	1.3	2.0	2.3	3.0	1.0	1.9
G12-2062R2	1.3	2.5	3.0	2.8	1.0	2.1
G12-2103R2	1.0	2.0	1.0	2.0	1.0	1.4
G12-2554R2	1.0	2.0	1.3	2.8	1.0	1.6
G12-2731R2	1.7	2.3	3.3	3.5	1.2	2.4
G12-3698R2	1.0	2.5	2.7	2.8	1.0	2.0
N05-7380	1.0	2.3	1.7	4.0	1.0	1.9
N09-13884	1.0	2.0	1.3	2.3	1.0	1.5
N09-13890	1.0	1.8	1.0	2.3	1.2	1.4
N10-764	1.0	1.8	1.7	2.5	1.0	1.6
N10-792	1.0	1.5	1.0	2.3	1.0	1.4
N10-7320	3.7	2.5	3.7	3.3	2.2	3.1
N10-7365	1.0	2.0	1.7	3.0	1.0	1.7
N11-7046	2.3	2.3	3.0	3.0	1.2	2.4
N11-8042	1.0	1.5	1.0	2.0	1.0	1.3
N11-10289	1.3	2.0	2.3	3.0	1.0	1.9
N11-10295	1.7	2.0	2.0	2.8	1.0	1.9
N11-10605	1.0	2.3	2.0	3.5	1.2	2.0
N11-10610	1.0	2.3	2.0	3.5	1.0	1.9
SC10-29	1.0	2.0	1.7	2.0	1.0	1.5
SC10-154	1.0	1.8	2.0	2.0	1.0	1.6
SC10-179	1.0	2.0	2.3	2.3	1.0	1.7
SC10-260	1.0	2.0	2.0	2.5	1.3	1.8
SC10-406RR	1.0	1.5	1.0	2.3	1.0	1.4
TCWN05/06-5068	1.3	2.0	2.0	3.0	1.2	1.9
Mean	1.3	2.0	2.0	2.7	1.1	.

TABLE 98 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Kinston, NC	Plains, GA	Plymouth, NC	Tallassee, AL(A)	Test Mean
AGS-738RR	.	.	.	4.0	1.5	2.8
AG7733	.	.	.	3.0	1.5	2.3
N7003CN	.	.	.	4.0	1.2	2.6
NCC06-899	.	.	.	3.5	1.0	2.3
G12-1784R2	.	.	.	3.5	1.0	2.3
G12-1816R2	.	.	.	3.5	1.0	2.3
G12-2062R2	.	.	.	3.0	1.0	2.0
G12-2103R2	.	.	.	2.5	1.0	1.8
G12-2554R2	.	.	.	4.0	1.0	2.5
G12-2731R2	.	.	.	4.0	1.0	2.5
G12-3698R2	.	.	.	4.5	1.5	3.0
N05-7380	.	.	.	4.0	1.0	2.5
N09-13884	.	.	.	3.5	1.5	2.5
N09-13890	.	.	.	3.5	1.5	2.5
N10-764	.	.	.	4.0	1.5	2.8
N10-792	.	.	.	3.0	1.5	2.3
N10-7320	.	.	.	4.0	1.0	2.5
N10-7365	.	.	.	4.0	1.0	2.5
N11-7046	.	.	.	3.5	1.5	2.5
N11-8042	.	.	.	4.0	1.5	2.8
N11-10289	.	.	.	3.5	1.0	2.3
N11-10295	.	.	.	3.5	1.0	2.3
N11-10605	.	.	.	3.0	1.3	2.2
N11-10610	.	.	.	4.0	1.5	2.8
SC10-29	.	.	.	5.0	1.5	3.2
SC10-154	.	.	.	5.0	2.0	3.5
SC10-179	.	.	.	4.5	1.0	2.7
SC10-260	.	.	.	5.0	2.0	3.5
SC10-406RR	.	.	.	3.5	1.0	2.3
TCWN05/06-5068	.	.	.	4.0	1.5	2.8
Mean	.	.	.	3.8	1.3	.

TABLE 99 - PARENTAGE OF STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC[†]	SPECIAL TRAITS[‡]
1	AGS828RR	Commercial check		RR1	
2	N8001	N7001 x Cook		Conv	Diversity
3	N05-7432	N7002 x N98-7265		Conv	Diversity, slow wilting, resistant to Mn deficiency
4	AG7934	Commercial check		RR1	
5	G10PR-56444R2	G93-2225 x (G00-3213 x RR2Y)	F4d	RR2	
6	G11PR-209R2	G00-3880(2) x RR2Y	BC1F5d	RR2	
7	G11PR-407R2	[G00-3213(3) x RR2Y] x {G00-3213(2) x [G00-3209 x G01-PR68 (Rpp?Hyuuga)]}	F2d	RR2	
8	G11-1614R2	G99-3211 x (G00-3213 x RR2Y)	F5d	RR2	
9	G11-1984R2	G99-3211 x (G00-3213 x RR2Y)	F5d	RR2	
10	G11PR-56151R2	G00-3213(4) x RR2Y	BC3F3d	RR2	
11	NLM09-52	N6202 x G98SF114.	F4	Conv	High protein/Diversity 12.5% Nakasennari, 12.5% Fukuyataka
12	SC09-092RR	N97-9658/SC00-643RR	F7	RR1	
13	SC09-210RR	SC01-809RR/G99-3211	F7	RR1	
14	SC10-394RR	SC98-2070/SC01-783RR	F6	RR1	LJ
15	SC10-455RR	SC98-2070/SC01-783RR	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 100 - GENERAL SUMMARY OF PERFORMANCE FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST VIII FOR YEAR 2015**

STRAIN/ VARIETY	AVERAGE		YIELD †			PROTEIN‡			OIL ‡		
	RANK	RANK	2015	14-15	13-15	2015	14-15	13-15	2015	14-15	13-15
AGS828RR	12	10	51.7	48.7	51.8	35.3	35.7	35.7	18.8	18.8	18.5
N8001	8	8	54.3	49.0	50.9	35.1	35.6	35.8	17.9	18.1	18.0
N05-7432	5	8	54.8	51.5	54.6	35.7	35.7	35.7	18.3	18.5	18.3
AG7934	2	5	57.4	54.5	.	35.1	35.4	.	19.4	19.5	.
G10PR-56444R2	3	7	55.8	51.7	54.3	32.5	34.1	34.9	19.7	19.5	19.1
G11PR-209R2	6	7	54.7	50.9	.	33.7	34.4	.	18.8	18.8	.
G11PR-407R2	13	10	51.0	49.2	.	35.8	35.8	.	19.6	19.7	.
G11-1614R2	7	7	54.4	.	.	34.9	.	.	19.6	.	.
G11-1984R2	4	7	55.1	.	.	34.6	.	.	19.1	.	.
G11PR-56151R2	1	3	59.1	53.3	.	35.8	36.3	.	19.2	19.2	.
NLM09-52	11	9	51.9	47.6	.	39.3	39.3	.	18.5	18.6	.
SC09-092RR	15	11	47.3	46.4	47.7	36.0	36.5	36.6	19.1	19.2	18.9
SC09-210RR	10	10	52.0	48.3	50.2	35.5	35.5	35.7	18.6	18.8	18.4
SC10-394RR	9	8	52.5	49.9	.	35.2	35.6	.	18.1	18.3	.
SC10-455RR	14	11	51.0	.	.	36.7	.	.	18.5	.	.
Mean	.	.	53.5	.	.	35.4	.	.	18.9	.	.
LSD(0.05)	.	.	6.3	.	.	0.7	.	.	0.5	.	.
CV(%)	.	.	12.4	.	.	1.8	.	.	2.2	.	.

†Data not included in mean: 2015 – Clayton, NC; Clemson, SC; Tallassee, AL (A); Tallassee, AL (B)
2014 – Clemson, SC; Tallassee, AL (A); Tallassee, AL (B)
2013 – Florence, SC; Clemson, SC; Tallassee, AL (A); Tallassee, AL (B); Tifton, GA

‡Protein percentage and oil percentage data from 2013 and 2014 were converted from dry weight basis to a 13% moisture basis using a 0.87 conversion factor in order to calculate the multi-year averages.

TABLE 101 - GENERAL SUMMARY OF BOTANICAL TRAITS FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VIII FOR YEAR 2015

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AGS828RR	0	2.1	34	1.9	12.4			
N8001	0	2.2	37	1.8	14.2	P	G	
N05-7432	5	2.1	32	1.8	13.6	P	G	
AG7934	1	1.4	36	1.6	14.4			
G10PR-56444R2	-2	2.1	36	1.6	14.3	P	T	T
G11PR-209R2	-3	1.7	34	1.8	13.5	P	T	T
G11PR-407R2	4	2.1	37	1.4	14.3	W	G	T
G11-1614R2	0	1.5	36	1.5	13.9	P	T	T
G11-1984R2	5	2.0	39	1.7	14.2	W	T	T
G11PR-56151R2	0	1.8	36	1.6	14.3	W	T	T
NLM09-52	5	1.6	34	1.5	18.6	P	G	
SC09-092RR	5	1.7	36	1.4	15.2	P	T	T
SC09-210RR	5	1.7	37	2.0	14.1	W	G	T
SC10-394RR	4	1.5	37	1.8	14.2	P	G	T
SC10-455RR	5	1.7	38	1.9	13.8	P	G	T
Mean	2	1.8	36	1.7	14.3			
LSD(0.05)	2	0.3	2	0.3	0.8			
CV(%)	140	33.0	9	21.0	5.3			

**TABLE 102 - GENERAL SUMMARY OF PEST REACTION FOR STRAIN/VARIETY
GROWN IN UNIFORM TEST VIII FOR YEAR 2015**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC	SDS
	Race 2	Race 3	Race 5	GA	GA	RATING	SCORE	DX
AGS828RR	5	5	5	2.8	1.0	R	1.0	.
N8001	5	5	5	4.8	1.0	MS	4.0	.
N05-7432	5	5	5	4.8	4.8	MS	4.0	.
AG7934	3	4	4	2.8	1.0	R	1.0	.
G10PR-56444R2	5	4	5	2.3	1.0	MR	2.0	.
G11PR-209R2	4	3	5	2.3	1.0	S	5.0	.
G11PR-407R2	5	1	5	2.5	1.0	R	1.0	.
G11-1614R2	5	1	5	4.8	1.0	R	1.0	.
G11-1984R2	5	3	5	1.3	1.0	R	1.0	.
G11PR-56151R2	5	1	5	1.3	1.3	S	5.0	.
NLM09-52	5	4	5	2.3	1.3	R	1.0	.
SC09-092RR	5	2	5	4.0	1.0	MR	2.0	.
SC09-210RR	5	2	4	3.8	1.5	R	1.0	.
SC10-394RR	4	4	5	3.8	4.0	MS	4.0	.
SC10-455RR	5	3	5	4.3	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 7, and HG Type 2.5.7, respectively.

TABLE 103 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VIII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS828RR	27.9	33.9	33.9
N8001	26.7	38.3	38.3
N05-7432	30.0	34.8	34.8
AG7934	35.0	43.1	43.1
G10PR-56444R2	36.7	39.0	39.0
G11PR-209R2	36.7	40.8	40.8
G11PR-407R2	31.1	37.5	37.5
G11-1614R2	33.4	41.3	41.3
G11-1984R2	31.5	39.2	39.2
G11PR-56151R2	36.3	41.2	41.2
NLM09-52	28.1	40.1	40.1
SC09-092RR	33.9	32.7	32.7
SC09-210RR	23.9	34.1	34.1
SC10-394RR	28.4	40.4	40.4
SC10-455RR	32.3	37.0	37.0
Mean	31.5	38.2	38.2
LSD(0.05)	9.2	6.2	1484.5
CV(%)	17.5	9.7	1344.5

TABLE 103 - SEED YIELD, IN BUSHELS PER ACRE, FOR STRAIN/VARIETY GROWN IN UNIFORM TEST VIII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clemson, ‡ SC	Fairhope, AL	Florence, ‡ SC	Plains, GA	Tallassee, ‡ AL(A)	Tallassee, ‡ AL(B)	Tifton, GA	Area Mean
AGS828RR	40.0	40.4	33.7	66.1	39.5	56.8	40.7	15.3	73.0	55.3
N8001	45.9	38.7	37.2	67.8	36.3	57.4	23.7	20.9	77.6	57.5
N05-7432	51.6	40.0	49.9	68.0	38.0	56.4	25.7	19.0	77.9	58.8
AG7934	46.6	44.6	32.3	68.0	45.6	66.1	34.7	34.0	75.9	60.2
G10PR-56444R2	39.8	47.7	39.6	63.0	44.4	60.9	36.0	22.1	84.1	59.1
G11PR-209R2	42.1	40.9	34.3	68.8	47.6	57.6	31.7	20.7	78.0	57.5
G11PR-407R2	50.7	42.8	49.3	63.6	50.3	51.3	32.7	33.0	60.2	53.7
G11-1614R2	44.7	43.3	52.6	65.6	37.0	62.1	40.0	28.3	69.3	57.0
G11-1984R2	49.8	46.6	42.9	61.6	40.5	54.9	33.3	9.7	78.2	58.2
G11PR-56151R2	55.9	52.4	36.7	70.7	37.0	68.2	37.3	36.7	66.2	62.7
NLM09-52	44.9	41.4	39.9	63.6	43.9	60.5	31.7	28.7	60.7	54.2
SC09-092RR	50.8	46.0	45.1	60.2	41.5	47.0	30.7	28.0	47.1	50.2
SC09-210RR	44.9	46.0	35.2	55.8	46.6	55.8	26.0	18.7	75.3	55.5
SC10-394RR	39.5	48.1	29.9	61.8	40.5	46.5	25.3	20.7	78.8	54.9
SC10-455RR	37.3	48.6	33.4	58.3	35.8	51.8	30.7	13.1	72.7	53.8
Mean	45.6	44.5	39.5	64.2	41.6	56.9	32.0	23.3	71.7	56.6
LSD(0.05)	5.7	8.2	18.5	7.7	19.3	7.8	12.7	15.5	9.4	7.6
CV(%)	7.4	11.0	27.2	7.2	27.8	8.2	22.8	31.7	7.9	12.6

‡Data not included in mean: 2015 – Clemson, SC; Florence, SC; Tallassee, AL (A); Tallassee, AL (B)

TABLE 104 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Fairhope, AL	Florence, SC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Test Mean
AGS828RR	18.2	19.3	19.1	19.2	18.4	18.4	18.8
N8001	17.3	18.5	18.4	18.4	17.6	17.4	17.9
N05-7432	17.8	19.1	18.6	18.4	17.9	18.0	18.3
AG7934	19.0	20.2	19.7	19.7	18.7	18.9	19.4
G10PR-56444R2	18.7	20.1	19.8	20.0	19.9	19.5	19.7
G11PR-209R2	18.0	19.0	19.1	19.0	18.8	18.8	18.8
G11PR-407R2	18.8	20.0	19.8	19.1	20.2	19.9	19.6
G11-1614R2	18.9	20.0	20.0	20.1	19.3	19.0	19.6
G11-1984R2	18.4	20.0	19.1	19.4	19.0	18.9	19.1
G11PR-56151R2	18.6	19.3	19.1	19.1	19.7	19.3	19.2
NLM09-52	17.9	19.0	18.3	18.8	19.0	18.1	18.5
SC09-092RR	18.7	19.5	19.0	19.1	19.5	19.0	19.1
SC09-210RR	17.9	19.1	18.3	19.1	18.8	18.3	18.6
SC10-394RR	17.8	18.9	19.1	18.4	17.6	17.0	18.1
SC10-455RR	18.4	19.6	19.2	19.5	17.8	16.5	18.5
Mean	18.3	19.4	19.1	19.2	18.8	18.5	.

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

TABLE 105 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Clemson, SC	Fairhope, AL	Florence, SC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Test Mean
AGS828RR	36.1	35.1	36.9	35.1	33.9	34.8	35.3
N8001	36.2	34.6	36.0	35.2	33.6	35.0	35.1
N05-7432	36.6	35.2	36.0	35.6	35.0	35.9	35.7
AG7934	35.6	34.5	36.0	34.2	35.0	35.5	35.1
G10PR-56444R2	33.4	33.1	33.2	33.0	30.7	31.8	32.5
G11PR-209R2	35.0	34.0	34.0	34.2	32.0	32.8	33.7
G11PR-407R2	36.3	35.6	37.1	36.7	34.0	34.9	35.8
G11-1614R2	35.7	34.6	36.2	34.5	33.8	34.6	34.9
G11-1984R2	36.0	34.4	35.4	34.1	33.3	34.4	34.6
G11PR-56151R2	37.2	36.1	37.3	36.0	33.2	34.7	35.8
NLM09-52	39.3	39.2	40.8	38.9	37.7	39.7	39.3
SC09-092RR	36.4	36.6	37.1	36.5	34.1	35.4	36.0
SC09-210RR	36.2	35.4	37.0	35.6	33.3	35.2	35.5
SC10-394RR	36.1	34.8	34.8	35.2	34.9	35.6	35.2
SC10-455RR	36.6	36.7	36.7	35.9	36.4	38.0	36.7
Mean	36.2	35.3	36.3	35.4	34.1	35.2	.

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

TABLE 106 - SIZE (GRAMS PER 100 SEED) FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clayton, NC	Clemson, SC	Fairhope, AL	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Tifton, GA	Test Mean
AGS828RR	.	.	12.9	.	14.3	13.0	10.7	13.3	10.1	10.0	14.5	12.4
N8001	.	.	15.2	.	16.7	14.4	13.1	16.0	9.8	10.6	17.4	14.2
N05-7432	.	.	13.4	.	16.3	14.1	12.0	14.1	10.1	11.9	16.9	13.6
AG7934	.	.	15.8	.	15.6	14.8	14.5	15.1	11.7	11.8	16.3	14.4
G10PR-56444R2	.	.	15.1	.	15.5	14.7	13.4	14.9	12.0	11.6	17.0	14.3
G11PR-209R2	.	.	14.1	.	14.3	15.1	13.1	13.5	10.8	10.8	15.9	13.5
G11PR-407R2	.	.	13.6	.	16.7	14.8	13.9	14.2	13.3	12.8	14.6	14.3
G11-1614R2	.	.	15.3	.	16.0	13.3	13.8	14.7	11.4	11.1	15.7	13.9
G11-1984R2	.	.	15.1	.	16.7	14.6	12.9	14.4	10.9	11.4	17.2	14.2
G11PR-56151R2	.	.	15.2	.	16.9	14.6	14.3	14.8	12.8	11.0	14.8	14.3
NLM09-52	.	.	19.8	.	21.1	19.6	18.1	20.5	14.8	15.1	20.1	18.6
SC09-092RR	.	.	15.6	.	17.5	16.4	13.7	15.5	12.9	12.9	16.8	15.2
SC09-210RR	.	.	14.6	.	15.7	14.4	12.0	15.5	10.9	11.6	17.8	14.1
SC10-394RR	.	.	15.0	.	15.6	14.7	12.0	15.4	11.8	11.9	17.2	14.2
SC10-455RR	.	.	15.2	.	15.5	14.8	12.2	15.1	10.8	10.2	16.4	13.8
Mean	.	.	15.1	.	16.3	14.9	13.3	15.1	11.6	11.8	16.6	.

TABLE 107 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS828RR	10/27	11/2	10/30
N8001	0	-5	-2
N05-7432	4	-1	1
AG7934	2	-3	0
G10PR-56444R2	0	-8	-4
G11PR-209R2	-2	-10	-6
G11PR-407R2	5	-2	2
G11-1614R2	3	-5	-1
G11-1984R2	5	3	3
G11PR-56151R2	2	-6	-2
NLM09-52	6	3	4
SC09-092RR	5	-3	1
SC09-210RR	6	1	3
SC10-394RR	-5	-3	-4
SC10-455RR	1	-1	0
Mean	2	-3	0

TABLE 107 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clemson, SC	Fairhope, AL	Florence, SC	Tallassee, AL(A)	Tallassee, AL(B)	Tifton, GA	Area Mean
AGS828RR	10/22	11/1	11/7	10/21	11/12	10/21	10/29	10/18	10/28
N8001	3	-1	1	2	-1	-1	0	-1	0
N05-7432	12	7	2	7	-2	9	6	3	5
AG7934	8	3	0	1	-3	1	2	0	2
G10PR-56444R2	-1	-4	-3	-2	-2	-1	1	-1	-2
G11PR-209R2	-2	-4	-3	-1	-3	-1	1	-2	-2
G11PR-407R2	11	1	3	3	-2	14	6	1	5
G11-1614R2	4	2	2	1	-2	0	1	-1	1
G11-1984R2	12	7	4	8	1	6	3	5	6
G11PR-56151R2	6	-2	2	1	0	-1	1	-3	0
NLM09-52	9	5	2	9	-4	12	6	0	5
SC09-092RR	12	6	1	7	-2	14	6	1	6
SC09-210RR	10	3	5	7	-3	9	6	4	5
SC10-394RR	5	8	6	6	-1	12	9	3	6
SC10-455RR	8	13	7	9	-2	5	9	2	6
Mean	6	3	2	4	-2	5	4	1	3

TABLE 108 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS828RR	38	42	40
N8001	41	43	42
N05-7432	34	36	35
AG7934	42	42	41
G10PR-56444R2	39	46	43
G11PR-209R2	36	38	37
G11PR-407R2	41	45	43
G11-1614R2	40	43	41
G11-1984R2	41	45	43
G11PR-56151R2	38	45	42
NLM09-52	39	41	40
SC09-092RR	39	40	39
SC09-210RR	38	41	40
SC10-394RR	38	39	38
SC10-455RR	38	37	37
Mean	39	41	.

TABLE 108 - PLANT HEIGHT, IN INCHES, FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clemson, SC	Fairhope, AL	Florence, SC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Tifton, GA	Area Mean
AGS828RR	32	.	36	35	29	.	31	29	33	32
N8001	35	.	35	41	32	.	33	31	40	35
N05-7432	30	.	34	35	28	.	28	28	37	31
AG7934	31	.	34	37	35	.	32	31	45	35
G10PR-56444R2	34	.	35	37	35	.	35	31	38	35
G11PR-209R2	31	.	36	36	34	.	31	29	38	34
G11PR-407R2	31	.	36	39	34	.	32	32	40	35
G11-1614R2	35	.	37	38	28	.	33	33	39	35
G11-1984R2	36	.	37	43	36	.	35	31	47	38
G11PR-56151R2	33	.	37	35	33	.	37	31	40	35
NLM09-52	30	.	35	33	33	.	32	30	35	33
SC09-092RR	32	.	37	37	36	.	35	34	39	36
SC09-210RR	35	.	36	38	37	.	34	30	44	36
SC10-394RR	32	.	38	41	34	.	34	33	46	37
SC10-455RR	35	.	35	43	37	.	34	32	45	37
Mean	33	.	36	38	33	.	33	31	40	.

TABLE 109 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS828RR	2.5	2.0	2.3
N8001	2.3	2.5	2.4
N05-7432	2.8	2.3	2.5
AG7934	2.0	2.0	2.0
G10PR-56444R2	2.0	2.5	2.3
G11PR-209R2	2.0	2.0	2.0
G11PR-407R2	2.8	2.3	2.5
G11-1614R2	1.5	1.8	1.6
G11-1984R2	1.5	1.8	1.6
G11PR-56151R2	2.0	2.0	2.0
NLM09-52	1.5	2.0	1.8
SC09-092RR	1.5	1.8	1.6
SC09-210RR	1.3	2.0	1.6
SC10-394RR	1.0	1.5	1.3
SC10-455RR	1.2	1.5	1.4
Mean	1.9	2.0	.

TABLE 109 - PLANT LODGING SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clemson, SC	Fairhope, AL	Florence, SC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Tifton, GA	Area Mean
AGS828RR	2.0	.	3.0	3.0	2.3	2.0	1.3	1.2	2.0	2.1
N8001	1.0	.	3.3	3.0	2.3	2.7	1.2	1.3	2.3	2.1
N05-7432	1.0	.	3.7	3.0	1.7	2.3	1.5	1.8	1.3	2.0
AG7934	1.0	.	2.3	1.7	1.3	1.0	1.0	1.0	1.3	1.3
G10PR-56444R2	1.7	.	3.0	3.3	1.3	2.3	1.2	1.3	2.3	2.1
G11PR-209R2	1.0	.	2.3	2.0	2.0	2.0	1.0	1.0	1.7	1.6
G11PR-407R2	1.3	.	3.3	2.7	2.3	3.7	1.0	1.0	1.0	2.0
G11-1614R2	1.0	.	2.3	1.7	1.7	1.7	1.0	1.0	1.0	1.4
G11-1984R2	1.0	.	3.3	3.3	2.3	2.0	1.3	1.2	2.3	2.1
G11PR-56151R2	1.7	.	3.3	1.3	2.3	2.0	1.3	1.3	1.0	1.8
NLM09-52	1.0	.	3.0	2.3	2.0	1.0	1.0	1.0	1.0	1.5
SC09-092RR	1.0	.	2.7	3.0	1.7	2.0	1.0	1.0	1.3	1.7
SC09-210RR	1.0	.	2.3	2.7	2.3	2.3	1.0	1.0	1.3	1.8
SC10-394RR	1.0	.	2.3	2.0	1.7	1.3	1.0	1.2	1.7	1.5
SC10-455RR	1.0	.	2.7	3.0	2.0	1.7	1.0	1.0	1.3	1.7
Mean	1.2	.	2.9	2.5	2.0	2.0	1.1	1.2	1.5	.

TABLE 110 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

East

STRAIN/ VARIETY	Clayton, NC	Kinston, NC	Area Mean
AGS828RR	2.0	.	2.0
N8001	1.5	.	1.5
N05-7432	1.5	.	1.5
AG7934	1.5	.	1.5
G10PR-56444R2	2.0	.	2.0
G11PR-209R2	1.0	.	1.0
G11PR-407R2	2.0	.	2.0
G11-1614R2	1.5	.	1.5
G11-1984R2	1.5	.	1.5
G11PR-56151R2	1.5	.	1.5
NLM09-52	2.0	.	2.0
SC09-092RR	1.0	.	1.0
SC09-210RR	2.0	.	2.0
SC10-394RR	1.5	.	1.5
SC10-455RR	2.0	.	2.0
Mean	1.6	.	.

TABLE 110 - SEED QUALITY SCORES FOR STRAIN/VARIETY GROWN IN UNIFORM GROUP VIII FOR YEAR 2015

South

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Clemson, SC	Fairhope, AL	Florence, SC	Plains, GA	Tallassee, AL(A)	Tallassee, AL(B)	Tifton, GA	Area Mean
AGS828RR	.	.	.	1.5	2.7	2.8	1.7	1.8	1.2	1.9
N8001	.	.	.	1.5	2.3	2.8	1.5	1.5	1.2	1.8
N05-7432	.	.	.	1.7	2.3	2.8	1.5	1.5	1.0	1.8
AG7934	.	.	.	1.7	1.7	2.5	1.5	1.0	1.3	1.6
G10PR-56444R2	.	.	.	1.5	2.0	3.0	1.0	1.0	1.2	1.6
G11PR-209R2	.	.	.	1.5	2.3	3.2	1.5	1.5	1.0	1.8
G11PR-407R2	.	.	.	1.0	1.7	2.2	1.0	1.5	1.0	1.4
G11-1614R2	.	.	.	1.5	1.7	2.8	1.0	1.2	1.0	1.5
G11-1984R2	.	.	.	2.0	2.3	2.3	1.0	1.5	1.0	1.7
G11PR-56151R2	.	.	.	1.5	2.0	2.3	1.5	1.0	1.0	1.6
NLM09-52	.	.	.	1.5	2.0	1.7	1.0	1.5	1.0	1.4
SC09-092RR	.	.	.	1.5	2.0	1.8	1.0	1.0	1.2	1.4
SC09-210RR	.	.	.	2.0	2.7	3.2	1.5	1.5	1.3	2.0
SC10-394RR	.	.	.	1.8	2.0	3.0	1.2	1.5	1.5	1.9
SC10-455RR	.	.	.	1.8	1.9	2.8	1.5	1.7	1.2	1.8
Mean	.	.	.	1.6	2.1	2.6	1.3	1.4	1.1	.

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TABLE 111 - PARENTAGE OF STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

	STRAIN/VARIETY	PARENTAGE	Fn	TRANSGENIC†	SPECIAL TRAITS‡
1	AGS828RR	Commercial check		RR1	
2	N8001	N7001 x Cook		Conv	Diversity
3	N05-7432	N7002 x N98-7265		Conv	Diversity, slow wilting, resistant to Mn deficiency
4	AG7934	Commercial check		RR1	
5	G12-2259R2	G00-3213 x [G00-3880(3) x RR2Y]	F5d	RR2	
6	G12-2482R2	G00-3213 x [G00-3880(3) x RR2Y]	F5d	RR2	
7	G12-3107R2	AU02-2814 x (G00-3880 x RR2Y)	F6d	RR2	
8	G12-3298R2	AU02-2814 x (G00-3880 x RR2Y)	F6d	RR2	
9	G12-6515	G00-3213(3) x [G00-3209 x G01-PR68(Rpp?Hyuga)]	F5d	Conv	
10	G12-6543	G00-3213(3) x [G00-3209 x G01-PR68(Rpp?Hyuga)]	F5d	Conv	
11	G13PR-110	Boggs(3) x Woodruff	F2d	Conv	
12	SC10-170	SC98-1850/Manokin(2)		Conv	LJ
13	SC10-231	SC98-1930/Manokin(2)		Conv	LJ
14	SC10-273RR	SC98-2070/SC01-783RR		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 FOR STRAIN/VARIETY
GROWN IN PRELIMINARY TEST VIII FOR YEAR 2015**

STRAIN/ VARIETY	SEED		AVG.		MAT. INDEX	LODGING	HEIGHT	SEED		% PROTEIN†	% OIL†	SCN Cyst Score (1-5 Scale)‡			SC RATING	SC SCORE	FL COLOR	PUB. COLOR	POD COLOR
	YIELD	RANK	RANK	RANK				QUALITY	SIZE			Race 2	Race 3	Race 5					
AGS828RR	44.0	11	9	0	2.4	33	1.9	11.6	35.7	18.6	4	5	5	R	1				
N8001	47.9	6	6	0	1.8	38	1.9	13.2	35.6	17.7	4	5	5	MS	4	P	G		
N05-7432	48.4	4	6	5	2.2	33	1.8	12.0	35.9	17.8	5	5	5	MS	4	P	G		
AG7934	54.8	1	2	2	1.3	38	1.7	13.9	35.1	19.4	4	5	5	R	1				
G12-2259R2	52.9	2	4	4	1.4	38	1.8	14.3	36.9	18.8	5	4	5	S	5	W	T	T	
G12-2482R2	46.6	8	8	2	1.6	37	1.5	13.4	34.7	18.8	5	5	5	S	5	W	T	T	
G12-3107R2	48.0	5	7	1	1.5	36	1.4	11.3	34.6	19.9	5	5	5	R	1	W	T	T	
G12-3298R2	45.8	9	8	3	1.8	39	2.3	12.4	34.3	20.0	4	5	5	R	1	P	T	T	
G12-6515	47.3	7	9	5	1.6	36	1.3	13.6	35.0	20.1	5	1	3	R	1	W	T	T	
G12-6543	52.1	3	3	6	1.7	37	1.5	13.4	35.9	19.6	5	1	4	S	5	W	T	T	
G13PR-110	44.2	10	10	5	2.7	38	1.9	12.0	37.1	18.8	3	1	2	R	1	W	T	T	
SC10-170	39.5	14	11	-4	3.0	33	3.2	11.6	35.3	19.3	5	1	4	S	5	W	T		
SC10-231	40.1	13	12	-5	2.1	32	2.5	11.8	34.3	19.5	5	3	5	R	1	W	G		
SC10-273RR	42.7	12	11	4	1.8	38	1.8	13.9	35.6	19.3	5	5	5	MR	2	P	G		
Mean	46.7	.	.	2	1.9	36	1.9	12.8	35.4	19.1	.	.	.	.	.	.	.	.	.
LSD(0.05)	7.7	.	.	5	.	3	0.9	1.2	1.4	0.7	.	.	.	.	.	.	.	.	.
CV(%)	14.0	.	.	212	.	8	31.8	6.4	2.3	2.2	.	.	.	.	.	.	.	.	.

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

‡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 7, and HG Type 2.5.7, respectively.

TABLE 113 - SEED YIELD, IN BUSHEL PER ACRE, FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, ‡ NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, ‡ AL(A)	Test Mean
AGS828RR	38.8	28.0	39.0	40.8	57.5	42.7	44.0
N8001	44.4	32.3	51.8	36.7	58.9	33.3	47.9
N05-7432	54.5	31.1	45.6	32.4	61.2	26.3	48.4
AG7934	55.5	30.6	50.0	46.5	67.3	47.0	54.8
G12-2259R2	53.4	32.6	57.7	40.1	60.4	48.0	52.9
G12-2482R2	43.9	27.3	44.2	39.7	58.7	46.7	46.6
G12-3107R2	41.6	23.9	53.5	39.1	57.9	43.3	48.0
G12-3298R2	44.3	26.3	43.4	40.3	55.3	39.7	45.8
G12-6515	61.7	31.3	36.3	39.5	51.7	55.3	47.3
G12-6543	57.0	33.8	49.3	42.2	59.7	32.0	52.1
G13PR-110	54.4	25.8	41.7	35.7	45.2	43.0	44.2
SC10-170	38.0	14.9	37.0	40.8	42.0	31.7	39.5
SC10-231	38.5	30.5	39.3	36.2	46.6	27.0	40.1
SC10-273RR	44.0	18.8	40.5	32.3	54.0	15.7	42.7
Mean	47.9	27.7	44.9	38.7	55.5	38.0	46.7
LSD(0.05)	5.1	7.9	9.1	7.7	7.8	14.3	7.7
CV(%)	6.4	16.6	12.1	11.8	8.4	22.5	14.0

‡Data not included in mean: 2015 – Clayton, NC; Tallassee, AL (A)

TABLE 114 - OIL PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	.	.	19.1	.	19.2	17.5	18.6
N8001	.	.	18.6	.	18.1	16.5	17.7
N05-7432	.	.	18.0	.	18.3	17.0	17.8
AG7934	.	.	19.7	.	20.0	18.6	19.4
G12-2259R2	.	.	19.1	.	18.8	18.5	18.8
G12-2482R2	.	.	19.0	.	19.0	18.3	18.8
G12-3107R2	.	.	20.7	.	19.9	19.0	19.9
G12-3298R2	.	.	20.5	.	20.5	18.9	20.0
G12-6515	.	.	20.9	.	19.5	19.8	20.1
G12-6543	.	.	19.6	.	19.7	19.5	19.6
G13PR-110	.	.	19.0	.	19.1	18.3	18.8
SC10-170	.	.	19.5	.	19.8	18.5	19.3
SC10-231	.	.	19.6	.	20.1	18.8	19.5
SC10-273RR	.	.	20.2	.	19.9	17.9	19.3
Mean	.	.	19.5	.	19.4	18.4	.

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

TABLE 115 - PROTEIN PERCENTAGES[†] FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	.	.	36.3	.	35.6	35.2	35.7
N8001	.	.	35.1	.	36.0	35.7	35.6
N05-7432	.	.	36.2	.	35.4	36.2	35.9
AG7934	.	.	35.9	.	34.5	34.9	35.1
G12-2259R2	.	.	37.3	.	36.8	36.6	36.9
G12-2482R2	.	.	35.0	.	34.9	34.1	34.7
G12-3107R2	.	.	34.2	.	34.5	35.0	34.6
G12-3298R2	.	.	34.5	.	33.5	34.9	34.3
G12-6515	.	.	34.4	.	35.5	35.0	35.0
G12-6543	.	.	37.3	.	35.3	35.0	35.9
G13PR-110	.	.	37.7	.	36.9	36.6	37.1
SC10-170	.	.	36.4	.	34.8	34.6	35.3
SC10-231	.	.	35.8	.	34.3	32.7	34.3
SC10-273RR	.	.	34.5	.	35.1	37.1	35.6
Mean	.	.	35.8	.	35.2	35.3	.

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

TABLE 116 - SEED SIZE IN GRAMS PER 100 SEED FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	.	11.5	13.3	11.5	.	10.1	11.6
N8001	.	15.6	14.5	12.3	.	10.3	13.2
N05-7432	.	11.9	14.7	11.0	.	10.6	12.0
AG7934	.	15.1	14.9	13.9	.	11.7	13.9
G12-2259R2	.	15.6	15.0	13.7	.	13.1	14.3
G12-2482R2	.	13.5	14.5	13.3	.	12.2	13.4
G12-3107R2	.	11.9	12.3	10.6	.	10.5	11.3
G12-3298R2	.	12.3	13.8	12.9	.	10.8	12.4
G12-6515	.	13.6	14.1	13.4	.	13.5	13.6
G12-6543	.	13.5	14.1	13.7	.	12.2	13.4
G13PR-110	.	12.2	13.2	11.6	.	11.0	12.0
SC10-170	.	10.1	12.9	12.8	.	10.6	11.6
SC10-231	.	12.1	12.4	12.4	.	10.2	11.8
SC10-273RR	.	15.2	15.6	13.3	.	11.7	13.9
Mean	.	13.1	13.9	12.6	.	11.3	.

TABLE 117 - RELATIVE MATURITY, DAYS EARLIER (-) OR LATER (+) THAN THE FIRST ENTRY FOR PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	10/25	10/26	11/13	10/27	.	10/21	10/29
N8001	0	1	0	2	.	-1	0
N05-7432	8	4	-2	3	.	11	5
AG7934	2	3	-2	5	.	2	2
G12-2259R2	3	4	-2	0	.	14	4
G12-2482R2	4	2	-2	0	.	7	2
G12-3107R2	5	2	-4	1	.	1	1
G12-3298R2	5	3	-2	4	.	5	3
G12-6515	4	5	0	3	.	14	5
G12-6543	5	6	-2	4	.	14	6
G13PR-110	8	6	-4	2	.	14	5
SC10-170	-9	-15	-2	-1	.	5	-4
SC10-231	-9	-13	-4	-1	.	1	-5
SC10-273RR	6	-4	-2	6	.	13	4
Mean	2	0	-2	2	.	7	.

TABLE 118 - HEIGHT IN INCHES FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	31	38	30	38	.	30	33
N8001	37	40	38	43	.	34	38
N05-7432	32	33	34	38	.	29	33
AG7934	36	36	37	42	.	35	38
G12-2259R2	38	40	36	42	.	34	38
G12-2482R2	37	36	35	44	.	32	37
G12-3107R2	36	38	34	39	.	35	36
G12-3298R2	39	43	34	45	.	37	39
G12-6515	35	41	28	46	.	35	36
G12-6543	37	37	35	44	.	31	37
G13PR-110	39	37	37	39	.	34	38
SC10-170	32	38	33	35	.	29	33
SC10-231	29	39	32	31	.	32	32
SC10-273RR	38	40	39	39	.	35	38
Mean	36	38	34	40	.	33	.

TABLE 119 - LODGING SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	2.7	2.2	3.0	2.0	3.3	1.0	2.4
N8001	1.0	1.7	2.3	2.0	2.3	1.2	1.8
N05-7432	1.7	2.7	3.3	2.0	2.3	1.0	2.2
AG7934	1.0	1.5	1.0	1.5	1.7	1.0	1.3
G12-2259R2	1.0	1.7	1.0	1.8	2.0	1.0	1.4
G12-2482R2	1.3	1.5	1.7	2.0	2.3	1.0	1.6
G12-3107R2	1.0	1.7	1.7	1.5	2.0	1.2	1.5
G12-3298R2	1.3	2.0	2.3	1.8	2.3	1.0	1.8
G12-6515	1.0	2.2	1.0	2.0	2.3	1.0	1.6
G12-6543	1.0	2.2	2.0	2.0	2.0	1.2	1.7
G13PR-110	3.0	3.5	3.3	1.8	3.3	1.3	2.7
SC10-170	5.0	2.0	3.0	1.5	5.0	1.0	3.0
SC10-231	1.3	2.7	3.3	1.5	2.7	1.2	2.1
SC10-273RR	1.3	2.0	2.3	1.8	2.0	1.2	1.8
Mean	1.7	2.1	2.2	1.8	2.5	1.1	.

TABLE 120 - SEED QUALITY SCORE FOR STRAIN/VARIETY GROWN IN PRELIMINARY GROUP VIII FOR YEAR 2015

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Tallassee, AL(A)	Test Mean
AGS828RR	.	2.0	2.3	.	.	1.5	1.9
N8001	.	2.0	2.3	.	.	1.5	1.9
N05-7432	.	1.5	2.5	.	.	1.5	1.8
AG7934	.	2.0	1.7	.	.	1.5	1.7
G12-2259R2	.	1.5	2.3	.	.	1.5	1.8
G12-2482R2	.	1.0	2.0	.	.	1.5	1.5
G12-3107R2	.	1.5	1.7	.	.	1.0	1.4
G12-3298R2	.	2.5	2.7	.	.	1.7	2.3
G12-6515	.	1.5	1.0	.	.	1.5	1.3
G12-6543	.	2.0	1.7	.	.	1.0	1.5
G13PR-110	.	1.5	2.7	.	.	1.5	1.9
SC10-170	.	4.5	4.0	.	.	1.5	3.2
SC10-231	.	3.0	3.7	.	.	1.0	2.5
SC10-273RR	.	1.5	2.3	.	.	1.5	1.8
Mean	.	2.0	2.3	.	.	1.4	.