UNIFORM SOYBEAN TESTS

SOUTHERN STATES

2017

COORDINATED, ANALYZED AND EDITED BY:

Anne M. Gillen
and
Gary W. Shelton

USDA-Agricultural Research Service
Crop Genetics Research Unit
141 Experiment Station Road
P. O. Box 345
Stoneville, Mississippi 38776

Annual reports are available online at http://www.ars.usda.gov/Main/docs.htm?docid=23815
Uniform Soybean Test Parentage Information Database is available at:
https://soybase.org/uniformtrial/index.php?page=lines

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INTRODUCTION

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

Eleven uniform test groups have been established to evaluate the best strains developed in the breeding programs. The groups 00 through IV are adapted in the northern part of the United States, and the groups IV-S through VIII are grown in the southern part. Within their area of adaptation, there is a maturity range of 12 to 18 days within each maturity class. The best varieties available in each maturity class are used as check varieties with which to compare new strains as to seed yield, chemical composition, maturity, height, lodging, seed quality, and reaction to diseases and nematodes. For the groups grown in the southern area, the check varieties are:
AG4232RR2Y, AG4135, LD06-7620, AG3934(RR2), AG4632RR2Y, AG4835(RR2), Ellis, JTN-5203, UA5612, AG5335(RR2), GoSoy54G16, TN11-5140, AG6534, NC-Dunphy (release of NCC07-8138), NC-Roy, NC-Dilday (release of NCC06-1090), AGS738RR, AG7733, N7003CN, NC-Wilder (release of NCC06-899), AGS828RR, AG7934, N8002, and, N8001.

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

POLICY ON EVALUATION AND RELEASE OF STRAINS

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

Qualifications for Participation in the Uniform Soybean Tests

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

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

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

Use of Uniform Soybean Test Entries in Soybean Breeding and Research

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

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

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

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

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

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

Release of Uniform Soybean Test Entries

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

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J. Koebernick, AU, Auburn, AL
R. Sikkens, AU, Auburn
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L. Mozzoni, UA, Fayetteville, AR
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E. Baxter, UG, Athens, GA
Z. Li, UG, Athens, GA
D. Wood, UG, Athens, GA
D. Mailhot, UGA, Griffin, GA

W. T. Schapaugh, Jr., KSU, Manhattan, KS
C. Stephens, KSU, Manhattan, KS

B. Buckley, LSU, Bossier City, LA

A. M. Gillen, USDA-ARS, Stoneville, MS
W. D. Marlow, USDA-ARS, Stoneville, MS
G. W. Shelton, USDA-ARS, Stoneville, MS

A. Scaboo, MU, Columbia, MO
X. Niu, MU, Columbia, MO
P. Chen, MU, Portageville, MO
M. Clubb, MU, Portageville, MO
M. Crisel, MU, Portageville, MO
S. Smothers, MU Portageville, MO

T. E. Carter, USDA-ARS, Raleigh, NC
R. Mian, USDA-ARS, Raleigh, NC
B. D. Fallen, CU, Florence, SC
R. F. Graham, CU, Florence, SC
M.S. Lennon, CU, Florence, SC
J. McCall, CU, Florence, SC

V. Pantalone, UT, Knoxville, TN
W. Pitt, UT, Knoxville, TN
C. Smallwood, UT, Knoxville, TN
D. Walker, UT, Knoxville, TN

P. Arelli, USDA-ARS, Jackson, TN
L. Fritz, USDA-ARS, Jackson, TN
G. Percell, WTES, Jackson, TN

A. Jensen, VPI&SU, Blacksburg, VA
T. Pridgen, VPI&SU, Blacksburg, VA
B. Zhang, VPI&SU, Blacksburg, VA
B. Lael, NPAREC, Orange, VA
M. Ellis, TAREC, Suffolk, VA
D. L. Holshouser, TAREC, Suffolk, VA
C. L. Barrack, EVAREC, Warsaw, VA

UNIFORM TEST PARTICIPANTS 2017

Dr. Prakash Arelli
USDA-ARS, Nematology Research
605 Airways Blvd.
Jackson, TN 38301
(731) 425-4741
(731) 425-4760 {Fax}
prakash.arelli@ars.usda.gov

Dr. Blair Buckley
LSU AgCenter
Red River Research Station
P.O. Box 8550
Bossier City, LA 71113
(318) 741-7430 Ext. 1202
(318) 741-7433 {Fax}
BBuckley@agcenter.lsu.edu

Dr. Thomas E. Carter
USDA-ARS, Soybean & Nitrogen Fixation Unit
P.O. Box 7631
Raleigh, NC 27695-7631
(919) 513-1480
(919) 856-4598 {Fax}
thomas.carter@ars.usda.gov

Dr. Pengyin Chen
Delta Center
University of Missouri
Highway T, P. O. Box 160
Portageville, MO 63873
(573) 379-5431
(573) 379-5875 {Fax}
chenpe@missouri.edu

Dr. Ben Fallen
Soybean Breeding & Genetics
Advanced Plant Technology Program
Clemson Pee Dee REC
2200 Pocket Road
Florence, SC 29506
(843) 662-3526
bfallen@clemson.edu

Dr. Anne M. Gillen
USDA-ARS, Crop Genetics Research Unit
141 Experiment Station Road
P. O. Box 345
Stoneville, MS 38776
(662) 686-3127
(662) 686-5218 {Fax}
anne.gillen@ars.usda.gov

Dr. Jenny Koebernick
Dept. of Agronomy and Soils
Auburn University
202 Funchess Hall
Auburn, AL 36849
(334) 844-3982
jenny.koebernick@auburn.edu

Dr. Zenglu Li
Dept. of Agronomy
University of Georgia
3111 Plant Sciences Bldg.
Athens, GA 30602
(706) 542-9805
(706) 542-0914 {Fax}
zli@uga.edu

Dr. Rouf Mian
USDA-ARS, Soybean & Nitrogen Fixation Unit
P.O. Box 7631
Raleigh, NC 27695-7631
(919) 513-1917
rouf.mian@ars.usda.gov

Dr. Leandro Mozzoni
Dept. of Crop, Soil and Environmental Sciences
University of Arkansas
115 Plant Science Building
Fayetteville, AR 72701
(479) 575-7564
(479)575-7465 (Fax)
lmozzon@uark.edu

Dr. Vince Pantalone
Dept. of Plant and Soil Sciences
University of Tennessee
P. O. Box 1071
Knoxville, TN 37901-1071
(865) 974-8801
(865) 974-7997 {Fax}
vpantalo@utk.edu

Dr. Andrew M. Scaboo
Research Assistant Professor
University of Missouri
Division of Plant Sciences
1-31 Agriculture Building
Columbia, MO 65211
(573) 882-3462
(573) 882-1469 {Fax}
scabooa@missouri.edu

Dr. Bill T. Schapaugh, Jr.
Dept. of Agronomy
Kansas State University
2004 Throckmorton Hall
Manhattan, KS 66506-5501
(785) 532-7242
(785) 532-6094 {Fax}
scha0035@ksu.edu

Dr. Rusty Smith
USDA-ARS, Crop Genetics Research Unit
141 Experiment Station Road
P. O. Box 345
Stoneville, MS 38776
(662) 686-5499
(662) 686-5218 {Fax}
rusty.smith@ars.usda.gov

Dr. Bo Zhang
Soybean Breeding Lead
Virginia Tech
Crop, Soil & Environmental Sciences
509 Latham Hall (0404)
Blacksburg, VA 24061
(540) 231-1737
(540) 231-3431 {Fax}
bozhang@vt.edu

STRAIN DESIGNATION

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

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

UNIFORM SOYBEAN TESTS PARENTAGE INFORMATION DATABASE

Historical Uniform Soybean Test parentage Information can be found at the following:
https://soybase.org/uniformtrial/index.php?page=lines

SOYBEAN NURSERY INFORMATION

A. LOCATION CONTACT AND TESTS- 2017

2017 Locations	Location Contact	IV-S-E*	IV-S-E	IV-S-L	IV-S-L	V-E	V-L	V	VI	VI	VII	VII	VIII	VIII
Belle Mina,AL	Jenny Koebernick		U		U			U						
Fairhope,AL	Jenny Koebernick									U		U		U
Tallassee,AL	Jenny Koebernick				U	P	P	U	P	U				
Keiser,AR	Leandro Mozzoni	P	U	P	U	P	P	U						
Stuttgart,AR	Leandro Mozzoni	P		P	U	P	P	U	P	U				
Athens,GA(A)	Zenglu Li									U	P	U	P	U
Athens,GA(B)	Zenglu Li											U		U
Calhoun,GA	Daniel Mailhot									U		U		
Plains,GA	Zenglu Li										P	U	P	U
Tifton,GA	Daniel Mailhot									U		U		U
McCune,KS	W. T. Schapaugh, Jr.			P	U	P	P	U						
Pittsburg,KS	W. T. Schapaugh, Jr.			P	U	P	P	U						
Bossier City,LA	Blair Buckley				U			U		U		U		
Portageville,MO(A)	Pengyin Chen		U		U			U						
Portageville,MO(B)	Pengyin Chen	P	U	P	U	P		U						
Columbia,MO	Andrew Scaboo	P	U											
Stoneville,MS	Gary Shelton	P	U	P	U	P	P	U	P	U				
Clayton,NC	Tommy Carter											U	P	U
Kinston,NC	Tommy Carter					P	P		P	U	P	U	P	U
Plymouth,NC	Rouf Mian							U	P		P	U		
Clemson,SC	Ben Fallen								P	U		U		U
Florence,SC	Ben Fallen									U	P	U	P	U
Jackson,TN	Prakash Arelli	P	U	P	U	P		U						
Knoxville,TN	Vincent Pantalone	P	U	P	U	P	P	U						
Springfield,TN	Vincent Pantalone		U		U			U						
Orange,VA	Brad Lael	P			U			U						
Suffolk,VA	David Holshouser							U						
Warsaw,VA	Bo Zhang				U	P	P	U						
TOTAL LOCATIONS PLANTED		8	9	8	15	11	9	17	6	11	5	12	5	9
TOTAL LOCATIONS REPORTING DATA		6	8	7	13	10	7	15	6	10	5	10	5	7

* U = Uniform Test; P = Preliminary Test

B. PLANTING DATES – 2017

2017 HARVEST DATES	PIV-S-E*	PIV-S-L	PV-E	PV-L	PVI	PVII	PVIII	UIV-S-E	UIV-S-L	UV	UVI	UVII	UVIII
Belle Mina,AL								5/2	5/3	5/11			
Fairhope,AL											NA	NA	NA
Tallassee,AL			6/12	6/12	6/12				6/12	6/12	6/12		
Keiser,AR	5/16	5/18	5/18	5/18				5/16	5/16	5/18			
Stuttgart,AR	5/17	5/17	5/11	5/11	5/11				5/17	5/11	5/11		
Athens,GA(A)						5/18	5/18				5/18	5/18	5/18
Athens,GA(B)												5/18	5/18
Calhoun,GA											6/11	6/11	
Plains,GA						6/27	6/27					6/27	6/27
Tifton,GA											5/25	5/25	5/25
McCune,KS		NA	NA	NA					NA	NA			
Pittsburg,KS		5/30	5/30	5/30					5/30	5/30			
Bossier City,LA									4/25	4/25	4/25	5/2	
Portageville,MO(A)								5/22	5/9	5/9			
Portageville,MO(B)	4/14	6/8	6/8					4/14	6/8	6/8			
Columbia,MO	5/10							5/10					
Stoneville,MS	4/13	4/13	4/13	4/13	4/13			4/13	4/13	4/13	4/13		
Clayton,NC							5/30					5/30	5/30
Kinston,NC			6/8	6/8	6/8	6/8	6/8				6/8	6/8	6/8
Plymouth,NC					5/17	5/17				5/17		5/17	
Clemson,SC					6/5						6/8	6/8	6/8
Florence,SC						5/30	5/30				5/30	5/30	5/30
Jackson,TN	5/16	5/16	5/15					5/16	5/16	5/15			
Knoxville,TN	5/18	5/10	5/10	5/18				5/10	5/10	5/10			
Springfield,TN								5/17	5/17	5/17			
Orange,VA	NA								NA	NA			
Suffolk,VA										5/9			
Warsaw,VA			6/3	6/3					6/3	6/3			

* NA = Data not available.

C. HARVEST DATES – 2017

2017 HARVEST DATES	PIV-S-E*	PIV-S-L	PV-E	PV-L	PVI	PVII	PVIII	UIV-S-E	UIV-S-L	UV	UVI	UVII	UVIII
Belle Mina,AL								9/26	10/2	10/16			
Fairhope,AL											NH	NH	NH
Tallassee,AL			11/15	11/15	11/16				10/28	11/15	11/16		
Keiser,AR	10/26	10/26	10/26	10/21				10/26	10/26	10/21			
Stuttgart,AR	10/18	10/18	10/31	10/31	10/31				10/18	10/31	10/31		
Athens,GA(A)						11/1	11/3				10/31	11/1	11/7
Athens,GA(B)												NH	NH
Calhoun,GA											11/15	11/15	
Plains,GA						11/15	11/15					11/15	11/16
Tifton,GA											10/26	10/26	10/26
McCune,KS		NH	NH	NH					NH	NH			
Pittsburg,KS		10/23	10/23	10/23					10/23	10/23			
Bossier City,LA									10/13	10/13	10/13	10/20	
Portageville,MO(A)								10/4	10/24	10/25			
Portageville,MO(B)	NH	10/20	10/20					NH	10/20	10/20			
Columbia,MO	9/29							9/29					
Stoneville,MS	9/5	9/18	9/25	9/25	10/6			9/5	9/18	9/25	10/9		
Clayton,NC							11/21					11/21	11/21
Kinston,NC			11/8	11/8	11/15	11/15	11/15				11/15	11/15	11/15
Plymouth,NC					11/29	11/16				10/26		11/16	
Clemson,SC					11/6						11/17	11/17	11/20
Florence,SC						11/21	11/21				11/20	11/20	11/20
Jackson,TN	10/3	10/3	10/20					10/3	10/4	10/20			
Knoxville,TN	10/3	10/31	11/1	NH				9/28	10/31	11/1			
Springfield,TN								10/5	10/5	10/5			
Orange,VA	NH								NH	NH			
Suffolk,VA										11/1			
Warsaw,VA			10/26	10/26					10/19	10/27			

Location Notes	
Fairhope,AL	Plots abandoned due to massive rains right after planteing.
Athens,GA(B)	UVII and UVIII not harvested due to heaving rains washing out large portion of field.
Plains,GA	Some data was omited due to location being planted late, due to heavy rains.
McCune,KS	Location was infested with podworms. Insecticide was applied; but, severe damage had already been done.
Portageville,MO(B)	Dicamba damage across all locations which may have affected the yields.
Portageville,MO(B)	UIV-S-E and PIV-S-E not harvested due to early flooding and severe Dicamba damage.
Jackson,TN	Dry September highlighted sandy patches in field leading to some data being omited.
Jackson,TN	Some lines were omited after they were prematurely killed by disease
Knoxville,TN	PV-L not harvested due to late flooding.
Orange,VA	Not harvested due to poor stands. Plots were too dry after planting, and never recovered.

* NH= Not harvested

D. AGRONOMIC CHARACTERISTICS OF LOCATIONS – 2017

2017 Location	SOIL TYPE	Row Spacing	Planted Length	Harvested Length	Trial Bordered	End Trim-med	# Rows Planted	# Rows Harvested	Prior Crop	Irri-gated
Belle Mina,AL	Decatur silt loan	30	20	20	Yes	No	4	2	Cotton	No
Fairhope,AL	Malbis fine sandy loan	38	20	18	Yes	Yes	4	2	Cotton	No
Tallassee,AL	Cahaba fine sandy loam	36	20	20	Yes	No	4	2	Corn	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)	Wickham Sandy Loam	30	16	12	Yes	Yes	4	2	Corn	Yes
Athens,GA(B)	Cecil coarse sandy loam	30	20	12	Yes	Yes	4	2	Grain sorghum	Yes
Calhoun,GA	Waynesboro Loam	30	21	18	Yes	Yes	4	2	Small Grains	Yes
Plains,GA	Faceville sandy loam	30	20	12	Yes	Yes	4	2	Soybeans	Yes
Tifton,GA	Tifton sandy loam	30	21	18	Yes	Yes	4	2	Corn	Yes
McCune,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Corn	No
Pittsburg,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Soybeans	No
Bossier City,LA	Caplis very fine sandy loam	40	28	20	Yes	Yes	4	2	Soybeans	Yes
Portageville,MO(A)	Dundee silt loam	30	12	12	Yes	No	4	2	Soybean	Yes
Portageville,MO(B)	Sharkey clay	30	12	12	Yes	No	4	2	Soybean	Yes
Columbia,MO	Mexico-silt loam	30	12	12	Yes	No	4	2	Soybeans	No
Stoneville,MS	Sharkey clay	26	18.5	16	Yes	Yes	5	3	Soybean	Yes
Clayton,NC	Norfolk sandy loam	38	18	15	Yes	Yes	3	1	Cotton	Yes
Kinston,NC	Stallings loamy sand	38	18	15	Yes	Yes	3	1	Corn	No
Plymouth,NC	Portsmouth silt loam	38	19	15	Yes	Yes	3	1	Corn	No
Clemson,SC	Cartecay fine sandy loam	30	30	22	Yes	Yes	4	2	Corn	No
Florence,SC	Sandy Loam	30	20	18	Yes	Yes	4	2	Corn	Yes
Jackson,TN	Vicksburg silt loam/ Vicksburg fine sandy loam	30	12	12	Yes	No	4	2	Soybeans	No
Knoxville,TN	Sequatchie silt loam*	30	20	16	Yes	Yes	4	2	Corn	NO
Springfield,TN	Staser Silt Loam	30	25	16	Yes	Yes	4	2	N/A	Yes
Orange,VA	Davidson	21	16	12	Yes	Yes	3	3	Corn	No
Suffolk,VA	Eunola	15	24	17	Yes	Yes	5	4	Corn	No
Warsaw,VA	Kempsville loam	30	18	12	Yes	Yes	4	2	small grains	No

E. WEATHER STATION INFORMATION

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/Agri-News/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.

AGRONOMIC CHARACTERISTICS

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

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

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

Maturity. Maturity was recorded as the date when 95% of the pods had reached mature pod color (Fehr and Caviness, 1977). Maturity in all summaries is expressed as days earlier (-) or later (+) than the reference variety. Reference varieties used in the different maturity groups were as follows: UIV-S (E) and PIV-S (E) - AG 4232; UIV-S (L) and PIV-S (L) - Ellis; UV and PV-E – Ellis; PV-L – UA5612; 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.

SEED COMPOSITION

Oil and Protein. Oil and protein percentages were determined from representative locations of the uniform and preliminary tests. A 50 ml composite sample all replications of a strain in trial was sent to the USDA-ARS, National Center for Agricultural Utilization Research, Bio-Oils Research Unit at Peoria, Illinois for analysis. One sample of 20ml of whole seed was analyzed for protein and oil composition by near infrared transmittance analysis (NIT) using an IM 9500 Grain Analyzer (Perten Instruments AB, Sweden). 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 (DWB). The conversion factor is 1.1494252 to convert from 13% to DW. The conversion factor is 0.87 to convert DW to 13%.

Validation of the protein and oil percentages are done with combustion method and pulsed Nuclear Magnetic Resonance and AOCS method Ac 2-41 respectively. Lines that were expected to have high oleic (HO) acid percentage, over 75% oleic fatty acid, were analyzed using a CHN 628 (Leco, MI, USA) combustion analysis to verify the protein content; random samples of non-HO beans were also analyzed for comparison. Seed samples are ground in a coffee mill then dried at 85 °C for one hour then analyzed with data compared on a DWB. Pulsed Nuclear Magnetic Resonance, Bruker mq20 (Bruker Corporation, The Woodlands, TX) calibrated to report grams of oil in known grams of seed weight while the AOCS method obtains the moisture content for a DWB oil percentage. Protein values on a 13% moisture basis based on this method are reported only for lines designated at having high oleic acid in the parentage table.

Amino Acids. Seed amino acid percentages were determined for strains known to have modified amino acid percentages and normal checks from representative locations of the uniform and preliminary tests. A composite sample from all replications of a strain in a trial was sent to the University of Missouri Experiment Station Chemical Laboratories (ESCL) for analysis of crude protein and amino acids using the "Cysteine, Methionine, Lysine +9" analysis.

Fatty Acids. Fatty acid analysis of strains known to have oleic acid levels over 75% and normal checks were determined from representative locations of the uniform and preliminary tests. Percent palmitic, stearic, oleic, linoleic and linolenic acid content in the oil were determined. A 30-gram composite seed sample of all replications of a strain in a trial was sent to Dr. Pengyin Chen, University of Missouri, Delta Center, Portageville, MO for analysis.

Mr. Stewart Selves at University of Missouri – Delta Center conducted the fatty acid analysis using a five-seed sample placed in an envelope and manually crushed with a hammer. Crushed seeds were extracted in 5mL chloroform:hexane:methanol (8:5:2, v/v/v) overnight. Derivatization was done by transferring 100 µL of extract to vial and adding 75 µL of methylating reagent (0.25 M methanolic sodium methoxide:petroleum ether:ethyl ether, 1:5:2 v/v/v). Hexane was added to dilute samples to approximately 1 mL. An Agilent (Palo Alto, CA) series 7890 capillary gas chromatograph fitted with a flame ionization detector (275°C) was used with an AT-Silar capillary column (Alltech Associates, Deerfield, IL). Standard fatty acid mixtures (Animal and Vegetable Oil Reference Mixture 6, AOACS) were used as calibration reference standards.

Oligosaccharides (Sugars). Seed sugar percentages were determined for strains known to have a modified sugar profile and normal checks from representative locations of the uniform and preliminary tests. Composite seed samples of all replications of a strain in a trial were sent to Dr. Bo Zhang, Virginia Polytechnic Institute and State University for analysis. A 0.1 gram of ground sample was used to extract sucrose, raffinose and stachyose and analyzed by High Performance Liquid Chromatography (HPLC). Four calibration standards are used: Standard Level 1: 75,7.5,18.75 ug/mL for sucrose, raffinose and stachyose, Standard Level 2: 150, 15, and 37.5 ug/mL for sucrose, raffinose and stachyose, Standard Level 3: 500, 50 and 125 ug/mL for sucrose, raffinose and stachyose and Standard Level 4: 1000, 100, and 250 ug/mL for sucrose, raffinose and stachyose. A reference standard is used as well: 4.90, 0.70 and 1.40 mg/mL of sucrose, raffinose and stachyose. Data is converted to percentage of sugars.

PEST ASSESSMENT

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

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

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

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

In 2017 the HG Types of the populations were as follows: HG Type 5.7 (race 3), and HG Type 2.5.7 (race 5). 5601T was used as the standard susceptible. The standard index lines were included in every test to confirm characterization. For race 3, 5601T had an average of 214 cysts per test. The female index for the cultures were as follows: Pickett FI 0(%), PI 548402 FI 0(%), PI 88788 FI 3(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 22(%), PI 89772 FI 0(%), and PI 548316 FI 34(%). For race 5, 5601T had an average of 338 cysts per test. The female index for the cultures were as follows: Pickett FI 38(%), PI 548402 FI 6(%), PI 88788 FI 48(%), PI 90763 FI 1(%), PI 437654 FI 0(%), PI 209332 FI 65(%), PI 89772 FI 1(%), and PI 548316 FI 46(%).

Stem Canker (SC). Soybean strains from all tests were evaluated at the Delta Research and Extension Center, Stoneville, Mississippi for their reaction to *Diaporthe aspalathi* (≡ D. *phaseolorum* var *meridionalis*) (SC), the fungus that causes southern stem canker. Strains were planted in non-replicated single-row plots 1.8 m long. Inoculum was produced by aseptically culturing isolates. Autoclaved, flat toothpicks containing a single isolate from

Mississippi known as MS-SSC91 were provided by Dr. Shuxian Li, USDA-ARS. Twelve plants per plot were inoculated by forcing a toothpick through the stem in the upper one-third of a young plant. Lesion development on the stem at the inoculation site was observed and noted every 2 weeks beginning with initial signs of disease on the susceptible checks. Final scores were determined when the susceptible checks had been killed by the disease, or the plot was near maturity. Plants having any external lesion were considered as susceptible. The final score was based on the overall appearance of all inoculated plants in a plot.

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

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

The score for susceptible checks AG4403 and Dixie4866, and resistant checks Ellis and AG4632 were 5, 5, 1 and 2, respectively.

Sudden Death Syndrome (SDS). SDS, which is caused by the fungus *Fusarium virguliforme*. SDS screening was not performed in 2017 due to a lack of funding.

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 I replication of data was provided for variables other than yield, the actual values for that replication were presented.

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

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

The protein and oil data for a variety/strain at a location is the NIR analysis results from one composite sample of all replications for each entry at the location. Size data is collected either for all replications, or as a composite sample. Arithmetic means are presented for composite samples and LSmeans are presented for replicated data.

Protein, oil and size were analyzed by test by analysis of variance using a mixed model (Proc Mixed in SAS) with variety as a fixed effect and location; as a random effect. Coefficient of variation (CV) and average LSD ($\alpha = 0.05$) were calculated from the Proc Mixed output. LSmeans are presented for the test means.

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

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

TABLE 1 - PARENTAGE OF ENTRIES
UNIFORM GROUP IV-S-EARLY 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AG 4232RR2Y	Commercial check	Commercial		RR2	
2	AG 4135	Commercial check	Commercial		RR2	
3	LD06-7620	IA3023 x LD00-3309			Conv	
4	AG 3934RR2	Commercial check	Commercial		RR2	
5	S13-2743C	LS07-3125 x S05-11400	Chen		Conv	
6	S13-3851C	S09-9838 x LD05-13265	Chen		Conv	
7	S13-10590C	S08-17361 x S05-11482	Chen		Conv	
8	S13-10592C	S08-17361 x S05-11482	Chen		Conv	
9	S14-8943R	LD07-3419 x S08-9727RR1	Chen		RR1	High Protein or Oil
10	S14-9051R	LD07-3419 x S08-9727RR1	Chen		RR1	
11	S14-9412R	S08-9727RR1 x S08-8440RR1	Chen		RR1	
12	SA12-1451	CL06-121119 x S07-5117	Scaboo	F4	Conv	
13	SA12-1455	CL06-121119 x S07-5117	Scaboo	F4	Conv	
14	SA12-1471	CL06-121119 x S07-5117	Scaboo	F4	Conv	
15	TN13-3519R2	LD02-7222P x (TN02-226 x MON RR2)	Pantalone		RR2	
16	TN13-4301	F3:5 Rend x LG97-9301	Pantalone		Conv	37 % exotic
17	TNLR-10	TN10-4037 x (NC-Raleigh x (NC-Burton x (PI603452 x PI283327)))	Pantalone		Conv	Oleic ? 75%
18	V11-2187	LG04-6000 x V03-7833	Zhang	F4	Conv	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 2 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST IV-S-EARLY 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
AG 4232RR2Y	13	11	59.5	63.9	.	34.5	34.7	.	19.5	19.6	.
AG 4135	4	6	64.6	68.3	.	35.0	35.3	.	20.1	20.1	.
LD06-7620	17	14	55.8	57.5	.	35.9	36.3	.	19.5	19.4	.
AG 3934RR2	18	16	48.7	57.7	55.2	35.1	35.4	35.8	19.7	19.8	19.7
S13-2743C	2	7	65.1	.	.	34.7	.	.	20.2	.	.
S13-3851C	11	9	61.9	.	.	34.8	.	.	19.8	.	.
S13-10590C	9	9	62.5	.	.	34.9	.	.	20.1	.	.
S13-10592C	7	7	63.7	.	.	34.9	.	.	20.0	.	.
S14-8943R	8	9	62.5	.	.	33.4	.	.	20.4	.	.
S14-9051R	3	6	64.9	.	.	32.5	.	.	20.8	.	.
S14-9412R	10	9	62.4	.	.	34.2	.	.	20.2	.	.
SA12-1451	1	5	67.1	.	.	36.4	.	.	18.8	.	.
SA12-1455	5	7	64.2	.	.	35.7	.	.	20.3	.	.
SA12-1471	6	7	63.9	.	.	35.3	.	.	19.6	.	.
TN13-3519R2	12	11	60.1	63.4	.	34.6	35.1	.	19.7	19.9	.
TN13-4301	15	14	57.8	.	.	35.4	.	.	19.7	.	.
TNLR-10	14	13	58.4	.	.	36.5	.	.	19.6	.	.
V11-2187	16	13	57.5	63.3	.	35.6	35.8	.	19.3	19.5	.
Mean	.	.	61.1	.	.	34.8	.	.	19.8	.	.
LSD(0.05)	.	.	5.0	.	.	1.0	.	.	0.7	.	.
CV(%)	.	.	11.9	.	.	2.8	.	.	3.4	.	.

† Data not included in mean: 2017 - Not applicable
2016 - Orange, VA; Warsau, VA
2015 - Orange, VA; Springfield, TN

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

TABLE 3 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST IV-S-EARLY 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AG 4232RR2Y	0	2.2	35	1.9	14.1	P	Lt	T
AG 4135	-4	1.9	35	2.2	15.9	W	G	Br
LD06-7620	-7	1.5	30	2.5	15.1	P	G	Br
AG 3934RR2	-7	1.9	28	2.2	16.5	P	G	Br
S13-2743C	-3	2.0	38	1.9	13.8	W	G	T/Bl
S13-3851C	2	2.0	35	1.9	15.5	P	Lt	T
S13-10590C	1	2.6	35	2.1	16.6	W	T	T
S13-10592C	0	2.1	36	2.2	14.7	W	T	T
S14-8943R	-2	2.5	32	2.0	13.3	W	G	T
S14-9051R	5	2.0	32	2.2	14.1	W	G	T
S14-9412R	5	2.0	38	2.0	13.5	W	T	T
SA12-1451	-2	1.7	28	1.9	12.5	P	G	Br
SA12-1455	-4	1.4	29	2.0	16.9	W	Lt	Br
SA12-1471	-2	2.1	38	2.2	15.5	W	G	T
TN13-3519R2	0	2.1	41	1.9	17.1	P	G	Br
TN13-4301	-4	2.6	36	2.1	13.9	W	G	Br
TNLR-10	-3	2.4	35	1.9	13.3	W	G	Br
V11-2187	0	1.9	38	1.9	13.6	P	G	T
Mean	-1	2.0	35	2.1	14.8			
LSD(0.05)	2	0.4	2	0.4	0.9			
CV(%)	182	28.0	7	19.0	6.5			

TABLE 4 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST IV-S-EARLY 2017

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC
	Race 1	Race 3	Race 5	GA	GA	RATING	SCORE
AG 4232RR2Y	.	2	4	3.3	5.0	MR	2.0
AG 4135	.	5	4	1.1	4.5	MR	2.0
LD06-7620	.	2	4	5.0	5.0	SS	3.0
AG 3934RR2	.	2	3	3.3	4.5	MR	2.0
S13-2743C	.	3	4	3.0	5.0	R	1.0
S13-3851C	.	4	4	3.6	5.0	R	1.0
S13-10590C	.	4	4	4.9	2.0	R	1.0
S13-10592C	.	3	2	4.0	5.0	R	1.0
S14-8943R	.	4	5	1.3	5.0	R	1.0
S14-9051R	.	2	1	2.9	5.0	R	1.0
S14-9412R	.	4	4	3.8	5.0	R	1.0
SA12-1451	.	2	4	3.8	5.0	R	1.0
SA12-1455	.	3	4	3.8	5.0	R	1.0
SA12-1471	.	2	5	4.3	4.3	R	1.0
TN13-3519R2	.	2	4	3.0	4.8	R	1.0
TN13-4301	.	3	4	4.0	4.8	R	1.0
TNLR-10	.	4	3	3.3	5.0	R	1.0
V11-2187	.	5	5	2.8	3.8	R	1.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 5 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	60.3	62.6	59.0	65.1	65.1	57.1	45.7	61.1	59.5
AG 4135	70.5	75.5	61.6	73.1	69.6	66.5	43.4	56.2	64.6
LD06-7620	61.5	69.8	57.2	61.5	57.0	60.5	40.8	32.8	55.8
AG 3934RR2	48.9	52.0	58.9	56.1	33.1	48.4	42.5	52.1	48.7
S13-2743C	69.7	66.4	56.2	66.6	71.2	62.9	58.5	69.3	65.1
S13-3851C	64.8	71.1	54.3	66.4	63.4	57.2	50.4	68.1	61.9
S13-10590C	66.7	68.3	55.9	69.1	61.4	65.6	45.1	67.7	62.5
S13-10592C	69.7	68.8	58.5	71.4	59.5	66.7	52.5	61.7	63.7
S14-8943R	63.5	74.3	57.2	64.2	68.1	61.8	42.9	68.1	62.5
S14-9051R	67.8	70.1	62.7	64.6	74.5	65.8	48.4	65.7	64.9
S14-9412R	61.1	64.1	52.4	70.7	70.5	63.8	50.7	66.4	62.4
SA12-1451	75.3	67.2	62.1	78.5	68.0	68.8	43.3	73.4	67.1
SA12-1455	71.6	70.2	62.3	65.6	72.5	69.2	41.7	60.4	64.2
SA12-1471	61.3	69.9	59.4	74.6	62.7	63.6	44.7	75.0	63.9
TN13-3519R2	61.5	61.3	51.1	63.7	61.7	58.0	49.8	73.6	60.1
TN13-4301	62.3	64.4	58.6	61.9	60.8	54.7	43.0	56.0	57.8
TNLR-10	66.6	61.3	55.7	57.1	63.2	58.5	44.0	60.9	58.4
V11-2187	58.0	54.1	51.9	66.4	61.3	57.1	48.4	63.0	57.5
Mean	64.5	66.2	57.5	66.5	63.5	61.4	46.4	62.9	61.1
LSD(0.05)	13.1	8.5	10.9	7.2	10.9	10.5	7.4	15.7	5.0
CV(%)	12.2	7.8	11.2	6.5	10.3	10.4	9.6	14.0	11.9

TABLE 6 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	9/7	9/27	9/22	9/22	9/27	9/16	8/27	9/17
AG 4135	-3	-3	-7	-5	-5	-2	-6	-4
LD06-7620	-2	-6	-10	-8	-9	-2	-10	-7
AG 3934RR2	-3	-5	-13	-8	-10	-3	-9	-7
S13-2743C	-2	-1	-5	-3	-4	-1	-6	-3
S13-3851C	5	0	-1	2	-2	1	6	2
S13-10590C	3	1	1	-3	0	0	6	1
S13-10592C	3	0	-3	-2	-1	0	6	0
S14-8943R	1	-4	-3	-3	-4	-1	-1	-2
S14-9051R	7	0	2	5	3	2	14	5
S14-9412R	9	2	1	5	2	1	14	5
SA12-1451	0	-4	-4	0	-4	0	-1	-2
SA12-1455	-4	-5	-9	-4	-6	0	-3	-4
SA12-1471	-1	-2	-5	-2	-4	0	3	-2
TN13-3519R2	2	1	-2	-3	0	-1	3	0
TN13-4301	-1	-5	-4	-4	-5	-2	-4	-4
TNLR-10	0	-4	-5	-3	-2	-2	-2	-3
V11-2187	-1	3	-4	0	-2	0	3	0
Mean	1	-2	-4	-2	-3	-1	1	-1
LSD(0.05)	3	2	3	2	2	2	2	2
CV(%)	286	66	52	77	38	175	170	182

TABLE 7 - PLANT HEIGHT (INCHES)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	35	40	36	.	36	36	32	32	35
AG 4135	36	38	36	.	35	39	30	33	35
LD06-7620	30	33	30	.	28	32	27	32	30
AG 3934RR2	28	31	30	.	25	30	27	30	29
S13-2743C	40	40	37	.	39	39	32	38	38
S13-3851C	37	37	33	.	33	37	29	36	35
S13-10590C	36	38	35	.	35	38	31	34	35
S13-10592C	40	39	34	.	33	39	33	36	36
S14-8943R	35	36	32	.	30	36	25	32	32
S14-9051R	33	35	33	.	33	35	27	29	32
S14-9412R	41	42	36	.	40	40	33	36	38
SA12-1451	33	30	27	.	29	30	21	24	28
SA12-1455	33	30	29	.	32	31	24	27	29
SA12-1471	38	43	39	.	39	40	33	32	38
TN13-3519R2	46	43	40	.	41	44	35	36	41
TN13-4301	39	38	39	.	31	40	31	32	36
TNLR-10	37	37	38	.	33	39	30	33	35
V11-2187	41	43	41	.	35	41	35	33	38
Mean	37	37	35	.	34	37	30	33	35
LSD(0.05)	4	3	5	.	4	3	3	2	2
CV(%)	7	5	8	.	8	5	7	4	7

TABLE 8 - PLANT LODGING (1-5)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	1.3	2.3	2.7	.	3.0	2.0	1.2	2.7	2.2
AG 4135	1.0	1.8	3.0	.	2.3	2.0	1.0	2.3	1.9
LD06-7620	1.3	1.5	2.0	.	1.7	1.0	1.0	2.0	1.5
AG 3934RR2	1.0	2.2	2.7	.	2.0	1.3	1.2	3.0	1.9
S13-2743C	1.0	1.8	2.3	.	2.3	2.0	1.2	3.0	2.0
S13-3851C	1.7	2.2	2.3	.	2.0	2.3	1.0	2.7	2.0
S13-10590C	2.3	2.7	3.0	.	3.3	3.0	1.3	2.7	2.6
S13-10592C	2.0	1.7	2.7	.	2.3	2.0	1.0	3.0	2.1
S14-8943R	1.7	2.8	3.3	.	3.0	2.7	1.2	2.7	2.5
S14-9051R	1.7	1.7	2.7	.	2.0	2.7	1.0	2.0	2.0
S14-9412R	2.0	1.8	2.0	.	2.3	1.7	1.0	3.0	2.0
SA12-1451	1.7	1.7	1.7	.	2.3	1.3	1.0	2.0	1.7
SA12-1455	1.0	1.3	2.0	.	1.3	1.0	1.0	2.0	1.4
SA12-1471	1.0	1.7	3.3	.	2.7	2.7	1.0	2.3	2.1
TN13-3519R2	1.0	1.7	2.3	.	2.7	3.7	1.2	2.0	2.1
TN13-4301	2.7	2.2	3.3	.	3.3	3.0	1.0	3.0	2.6
TNLR-10	2.0	2.0	3.7	.	3.3	2.3	1.0	2.7	2.4
V11-2187	1.0	1.7	3.3	.	2.7	1.3	1.2	2.0	1.9
Mean	1.5	1.9	2.7	.	2.5	2.1	1.1	2.5	2.0
LSD(0.05)	0.6	0.6	0.8	.	1.3	0.8	0.3	0.6	0.4
CV(%)	25.3	18.7	18.3	.	31.7	23.2	15.2	14.3	27.6

TABLE 9 - SEED QUALITY (1-5)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	1.0	1.2	2.0	2.5	.	1.7	.	3.0	1.9
AG 4135	1.2	1.3	3.0	2.5	.	2.0	.	3.0	2.2
LD06-7620	1.2	1.5	3.7	3.5	.	2.0	.	3.0	2.5
AG 3934RR2	1.2	1.3	3.0	2.0	.	2.3	.	3.0	2.2
S13-2743C	1.2	1.7	2.0	2.0	.	1.3	.	3.0	1.9
S13-3851C	1.0	1.0	3.0	2.0	.	1.3	.	3.0	1.9
S13-10590C	1.2	1.2	3.0	3.0	.	1.7	.	3.0	2.1
S13-10592C	1.0	1.5	3.0	3.0	.	2.0	.	3.0	2.2
S14-8943R	1.0	1.3	3.0	2.5	.	1.3	.	3.0	2.0
S14-9051R	1.0	1.5	3.0	3.0	.	1.7	.	3.0	2.2
S14-9412R	1.2	1.7	2.7	1.5	.	1.7	.	3.0	2.0
SA12-1451	1.0	1.0	2.3	3.5	.	1.3	.	3.0	1.9
SA12-1455	1.0	1.5	2.3	3.5	.	1.3	.	3.0	2.0
SA12-1471	1.0	1.5	3.0	2.5	.	2.0	.	3.0	2.2
TN13-3519R2	1.0	1.5	2.3	2.0	.	1.7	.	3.0	1.9
TN13-4301	1.0	1.3	3.0	2.0	.	2.0	.	3.0	2.1
TNLR-10	1.0	1.5	2.3	2.5	.	1.3	.	3.0	1.9
V11-2187	1.0	1.7	2.7	2.0	.	1.0	.	3.0	1.9
Mean	1.1	1.4	2.7	2.5	.	1.6	.	3.0	2.1
LSD(0.05)	0.3	0.3	0.6	.	.	0.8	.	.	0.4
CV(%)	15.8	14.6	12.8	.	.	28.6	.	.	19.1

TABLE 10 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	*Belle Mina, AL*	*Columbia, MO*	*Jackson, TN*	*Keiser, AR*	*Knoxville, TN*	*Portageville, MO(A)*	*Springfield, TN*	*Stoneville, MS*	*Test Mean*
AG 4232RR2Y	14.0	13.7	13.7	14.5	.	14.0	.	14.0	14.1
AG 4135	15.6	15.5	14.4	16.5	.	17.2	.	15.6	15.9
LD06-7620	15.7	13.8	13.7	18.2	.	14.1	.	16.1	15.1
AG 3934RR2	15.8	16.8	16.3	17.5	.	16.2	.	16.4	16.5
S13-2743C	14.5	12.0	14.0	14.6	.	13.1	.	14.7	13.8
S13-3851C	15.1	14.6	16.2	16.6	.	14.6	.	16.4	15.5
S13-10590C	15.9	16.1	15.8	17.1	.	17.8	.	16.8	16.6
S13-10592C	13.6	14.6	14.6	16.4	.	14.6	.	14.7	14.7
S14-8943R	13.5	11.9	13.7	14.3	.	12.7	.	14.1	13.3
S14-9051R	13.4	13.3	14.9	15.3	.	13.8	.	13.8	14.1
S14-9412R	12.9	12.4	14.1	14.2	.	13.7	.	13.0	13.5
SA12-1451	13.3	10.7	12.5	13.9	.	11.7	.	13.7	12.5
SA12-1455	17.2	15.2	16.3	19.0	.	15.8	.	19.0	16.9
SA12-1471	14.8	15.1	15.4	16.6	.	14.6	.	16.9	15.5
TN13-3519R2	16.5	15.5	17.7	17.1	.	18.7	.	16.5	17.1
TN13-4301	14.3	13.0	13.8	14.6	.	13.7	.	13.9	13.9
TNLR-10	13.4	12.6	13.0	14.3	.	12.6	.	14.2	13.3
V11-2187	13.9	13.1	13.2	14.1	.	13.0	.	13.9	13.6
Mean	14.6	13.9	14.6	15.8	.	14.5	.	15.2	14.8
LSD(0.05)	2.2	0.7	1.0	.	.	0.7	.	.	0.9
CV(%)	9.0	3.2	4.1	.	.	2.9	.	.	6.5

TABLE 11 - OIL (%)†
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	19.7	18.7	20.7	19.0	19.6	19.5	18.9	20.0	19.5
AG 4135	19.8	19.6	20.9	19.4	19.8	20.3	19.2	21.5	20.1
LD06-7620	20.4	19.4	19.9	17.8	18.8	19.2	18.4	21.6	19.5
AG 3934RR2	20.1	18.5	19.2	19.5	19.7	19.8	19.0	22.0	19.7
S13-2743C	20.4	19.4	20.7	19.8	20.0	19.8	19.4	21.8	20.2
S13-3851C	19.5	19.1	21.7	18.1	19.9	19.4	19.6	21.1	19.8
S13-10590C	20.0	19.3	21.0	19.6	20.4	20.1	19.5	20.9	20.1
S13-10592C	20.1	19.3	20.6	19.2	20.0	19.7	19.2	22.3	20.0
S14-8943R	20.2	19.3	21.4	20.1	20.6	20.8	19.8	21.3	20.4
S14-9051R	20.7	20.1	21.1	20.7	20.4	20.6	20.8	22.1	20.8
S14-9412R	20.4	19.7	21.5	20.0	20.0	20.0	19.6	20.7	20.2
SA12-1451	20.4	19.0	19.7	18.5	18.9	19.3	18.8	15.8	18.8
SA12-1455	20.5	19.6	20.6	18.6	21.9	19.9	19.2	21.9	20.3
SA12-1471	20.0	18.4	20.2	18.5	19.9	19.7	20.0	20.4	19.6
TN13-3519R2	19.8	19.6	20.8	18.9	19.7	19.8	19.7	19.4	19.7
TN13-4301	19.7	19.7	19.4	18.7	19.0	19.4	19.8	21.8	19.7
TNLR-10	20.4	19.5	20.3	19.0	19.6	17.9	19.8	20.5	19.6
V11-2187	19.2	18.7	20.1	18.6	19.4	19.3	19.4	19.9	19.3
Mean	20.1	19.3	20.5	19.1	19.9	19.7	19.4	20.8	19.8
LSD(0.05)	.	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	.	3.4

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

TABLE 12 - PROTEIN (%)†
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	34.7	35.1	33.0	34.8	34.8	33.4	35.4	35.1	34.5
AG 4135	33.8	34.4	33.6	35.4	35.4	33.3	36.7	37.6	35.0
LD06-7620	33.6	33.3	35.9	37.8	36.5	33.6	36.7	40.1	35.9
AG 3934RR2	33.6	35.7	36.2	34.2	35.3	33.2	36.0	36.3	35.1
S13-2743C	33.4	34.6	34.0	35.2	34.9	34.7	35.6	35.2	34.7
S13-3851C	34.8	35.7	33.2	34.9	34.7	34.7	34.7	35.8	34.8
S13-10590C	34.3	34.1	34.0	36.0	34.8	34.3	35.8	35.8	34.9
S13-10592C	34.0	33.8	34.2	36.4	34.5	33.2	36.5	36.4	34.9
S14-8943R	33.3	33.8	33.3	33.9	32.6	32.2	34.9	33.2	33.4
S14-9051R	32.8	31.9	32.2	31.9	33.4	31.8	32.1	33.9	32.5
S14-9412R	33.3	34.2	33.4	34.3	34.9	33.4	35.6	34.7	34.2
SA12-1451	33.6	35.3	35.6	37.8	37.4	34.5	37.8	38.9	36.4
SA12-1455	34.7	34.6	35.2	37.1	31.9	34.5	38.1	39.5	35.7
SA12-1471	33.3	36.2	33.7	37.1	35.9	34.0	35.9	36.3	35.3
TN13-3519R2	33.9	34.0	35.2	35.3	35.4	31.6	35.0	36.2	34.6
TN13-4301	34.5	33.9	35.3	36.6	36.0	34.7	35.7	36.3	35.4
TNLR-10	33.9	34.1	33.0	35.3	33.8	32.6	34.7	32.7	33.8
V11-2187	35.7	35.9	34.9	37.1	35.2	34.0	35.3	36.5	35.6
Mean	33.9	34.5	34.2	35.6	34.9	33.5	35.7	36.1	34.8
LSD(0.05)	.	.	.	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	.	.	.	2.8

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

SUMMARY OF SEED FATTY ACIDS (%)†
UNIFORM TEST IV-S-EARLY 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AG 4232RR2Y	11.0	3.7	22.0	56.0	7.4
AG 4135	11.0	4.4	23.0	54.0	6.7
LD06-7620	12.0	4.2	22.0	55.0	7.1
AG 3934RR2	12.0	3.9	21.0	56.0	7.1
TNLR-10	7.6	3.6	81.0	3.9	3.8
Mean	11.0	3.9	34.0	45.0	6.4
LSD(0.05)	0.3	0.3	2.3	2.0	0.4
CV(%)	3.2	7.3	6.7	4.3	6.7

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	11.2	11.1	11.1	11.3	11.2	11.5	11.0	11.1	11.2
AG 4135	11.5	11.0	10.8	11.1	11.2	11.7	10.4	11.2	11.1
LD06-7620	11.3	11.1	11.7	10.9	11.5	12.0	11.0	12.8	11.5
AG 3934RR2	11.8	11.5	11.3	11.8	11.5	12.3	11.4	11.7	11.7
TNLR-10	8.3	7.4	7.3	7.5	7.7	7.6	7.4	7.4	7.6
Mean	10.8	10.4	10.4	10.5	10.6	11.0	10.2	10.8	10.6
LSD(0.05)	.	.	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	.	.	3.2

SEED STEARIC ACID (%)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	3.7	4.3	3.6	3.6	3.4	3.6	3.6	3.8	3.7
AG 4135	4.4	5.5	4.2	4.1	3.7	4.1	4.5	4.5	4.4
LD06-7620	3.2	4.8	4.0	4.1	4.2	4.1	4.5	4.4	4.2
AG 3934RR2	3.8	5.0	3.8	3.7	3.8	3.7	3.7	3.7	3.9
TNLR-10	4.1	4.1	3.6	3.2	3.4	3.5	3.5	3.4	3.6
Mean	3.9	4.7	3.8	3.7	3.7	3.8	4.0	4.0	3.9
LSD(0.05)	.	.	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	.	.	7.3

SEED OLEIC ACID (%)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	20.2	23.8	22.8	21.1	20.4	21.1	23.1	21.7	21.8
AG 4135	19.6	21.7	22.1	24.6	20.0	21.1	31.3	27.6	23.5
LD06-7620	21.0	22.0	18.5	25.3	19.1	20.7	27.8	23.6	22.2
AG 3934RR2	20.7	22.7	20.3	19.8	22.5	19.8	23.0	22.6	21.4
TNLR-10	74.7	80.5	82.4	82.2	84.5	80.5	82.1	82.5	81.2
Mean	31.2	34.1	33.2	34.6	33.3	32.6	37.5	35.6	34.0
LSD(0.05)	.	.	.	.	.	.	.	.	2.3
CV(%)	.	.	.	.	.	.	.	.	6.7

SEED LINOLEIC ACID (%)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	57.6	53.1	55.5	56.7	57.2	56.2	54.9	56.3	55.9
AG 4135	57.8	53.8	56.0	53.8	57.8	56.0	47.9	51.6	54.3
LD06-7620	57.3	54.7	57.9	53.0	57.1	55.2	50.9	53.7	55.0
AG 3934RR2	56.6	53.4	57.4	57.1	55.1	56.3	55.2	56.3	55.9
TNLR-10	9.5	3.6	3.0	3.3	0.4	4.2	3.5	3.6	3.9
Mean	47.8	43.7	45.9	44.8	45.5	45.6	42.5	44.3	45.0
LSD(0.05)	.	.	.	.	.	.	.	.	2.0
CV(%)	.	.	.	.	.	.	.	.	4.3

SEED LINOLENIC ACID (%)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Belle Mina, AL	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Portageville, MO(A)	Springfield, TN	Stoneville, MS	Test Mean
AG 4232RR2Y	7.3	7.7	7.1	7.4	7.8	7.6	7.3	7.0	7.4
AG 4135	6.8	8.0	6.9	6.4	7.3	7.1	5.9	5.1	6.7
LD06-7620	7.2	7.4	7.9	6.7	8.1	8.0	5.9	5.5	7.1
AG 3934RR2	7.1	7.4	7.2	7.5	7.2	7.9	6.7	5.8	7.1
TNLR-10	3.3	4.4	3.7	3.9	3.9	4.2	3.6	3.2	3.8
Mean	6.3	7.0	6.6	6.4	6.9	7.0	5.9	5.3	6.4
LSD(0.05)	.	.	.	.	.	.	.	.	0.4
CV(%)	.	.	.	.	.	.	.	.	6.7

TABLE 13 - PARENTAGE OF ENTRIES
UNIFORM GROUP IV-S-LATE 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	Ellis	5002T x 5601T	Commercial		Conv	
2	AG 4632RR2Y	Commercial check	Commercial		RR2	
3	AG 4835	Commercial check	Commercial		RR2	
4	DA10x05-17F	DB06-1225 x DB06-2257	Gillen	F5	Conv	
5	DA10x05-20F	DB06-1225 x DB06-2257	Gillen	F5	Conv	
6	DA10x30-09F	Jake x DB04-10997	Gillen	F5	Conv	
7	DA10x30-48F	Jake x DB04-10997	Gillen	F5	Conv	
8	K14-1717	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
9	K14-1719	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
10	R11-328	5601T x R01-1762	Mozzoni	F5	Conv	
11	R12-712	R01-976 x 5002T	Mozzoni	F5	Conv	
12	R13-1019	R05-4114 x R05-3239	Mozzoni	F4	Conv	
13	R13-13433	R05-235 x S021431C	Mozzoni	F4	Conv	
14	S13-1805C	LD07-3419 x S05-11482	Chen		Conv	
15	S14-2582C	S06-11278 x S11-185F1	Chen		Conv	
16	S14-6391C	S06-11278 x S09-10871	Chen		Conv	
17	S14-15138R	S09-10871 x S08-9727RR1	Chen		RR1	
18	S14-15146R	S09-10871 x S08-9727RR1	Chen		RR1	
19	S14-15195R	S09-10871 x S08-9727RR1	Chen		RR1	
20	S15-7218R	S08-17361 x S11-8794RR	Chen		RR1	
21	TN14-5021	Caviness × Anand	Pantalone		Conv	
22	TN14-5035	Caviness × Anand	Pantalone		Conv	
23	TN15-4011	TN09-016 x S05-11482	Pantalone		Conv	
24	TN15-4546	TN02-226 x MON RR2Y	Pantalone		RR2	
25	TN16-520	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
26	TN16-532	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 14 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST IV-S-LATE 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
Ellis	7	12	60.4	59.8	60.3	34.8	35.0	35.0	18.4	18.7	18.7
AG 4632RR2Y	1	7	63.5	60.3	60.7	33.0	33.5	33.7	19.7	19.8	19.7
AG 4835	5	11	60.8	60.0	61.8	34.7	35.0	35.1	18.9	18.9	18.8
DA10x05-17F	23	17	55.5	.	.	34.5	.	.	18.8	.	.
DA10x05-20F	24	18	55.0	.	.	34.3	.	.	18.9	.	.
DA10x30-09F	12	14	58.8	.	.	35.8	.	.	17.9	.	.
DA10x30-48F	20	14	57.2	.	.	36.2	.	.	18.4	.	.
K14-1717	6	10	60.8	.	.	35.8	.	.	18.4	.	.
K14-1719	25	19	53.8	.	.	35.5	.	.	18.7	.	.
R11-328	11	14	58.9	58.4	.	35.5	35.8	.	18.7	19.0	.
R12-712	26	16	53.3	55.4	.	37.9	38.0	.	18.0	18.4	.
R13-1019	19	16	57.4	56.6	.	35.8	36.0	.	18.2	18.5	.
R13-13433	9	11	60.3	58.7	.	33.6	34.2	.	19.9	20.1	.
S13-1805C	8	12	60.3	.	.	34.4	.	.	19.9	.	.
S14-2582C	16	13	58.3	.	.	36.3	.	.	18.8	.	.
S14-6391C	14	14	58.5	.	.	35.2	.	.	18.9	.	.
S14-15138R	2	10	61.4	.	.	35.4	.	.	19.3	.	.
S14-15146R	17	15	58.0	.	.	33.8	.	.	20.1	.	.
S14-15195R	13	14	58.6	.	.	35.5	.	.	19.2	.	.
S15-7218R	18	16	57.7	.	.	34.3	.	.	19.4	.	.
TN14-5021	10	12	59.7	.	.	35.1	.	.	19.3	.	.
TN14-5035	15	14	58.3	.	.	34.9	.	.	19.1	.	.
TN15-4011	21	13	56.8	.	.	33.2	.	.	19.7	.	.
TN15-4546	22	16	55.7	.	.	32.7	.	.	19.3	.	.
TN16-520	4	10	61.1	.	.	34.7	.	.	18.7	.	.
TN16-532	3	10	61.4	.	.	34.7	.	.	18.6	.	.
Mean	.	.	58.5	.	.	34.9	.	.	19.0	.	.
LSD(0.05)	.	.	5.1	.	.	0.6	.	.	0.3	.	.
CV(%)	.	.	14.0	.	.	2.2	.	.	2.1	.	.

† Data not included in mean: 2017 - Not applicable
2016 - Orange, VA; Warsau, VA
2015 - Orange, VA; Springfield, TN

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

TABLE 15 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST IV-S-LATE 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
Ellis	0	1.4	26	1.5	13.1	W	G	T
AG 4632RR2Y	-7	2.1	36	1.9	14.9	P	G	Br
AG 4835	-4	1.7	36	1.7	13.6	P	G	Br
DA10x05-17F	0	1.7	26	1.7	16.8	W	T	T
DA10x05-20F	0	1.7	27	1.8	16.1	W	T	T
DA10x30-09F	-1	1.6	31	1.6	11.6	P	T	T
DA10x30-48F	-2	1.5	30	1.5	11.9	P	T	T
K14-1717	-4	1.9	25	1.7	15.4	P	G	Br
K14-1719	-7	1.4	25	1.8	14.5	S	G	Br
R11-328	-1	1.7	32	1.7	14.4	P	G	T
R12-712	-3	1.6	26	1.7	15.2	P	G	T
R13-1019	-1	2.0	31	1.4	12.9	P	G	T
R13-13433	-1	2.0	33	1.5	16.2	P	G	T
S13-1805C	-1	2.3	29	1.9	14.9	W	T	T
S14-2582C	-1	1.8	30	1.8	14.7	W	G	T
S14-6391C	-4	2.6	36	1.9	15.9	W	T	T
S14-15138R	-4	1.8	33	1.8	16.2	W	T	T
S14-15146R	-7	1.7	31	2.0	15.1	W	T	T
S14-15195R	-5	1.7	34	1.8	14.5	W	Lt	T
S15-7218R	-3	2.1	37	2.0	17.2	W	T	T
TN14-5021	-1	1.6	27	1.6	13.1	W	G	T
TN14-5035	-1	1.4	27	1.6	13.1	W	G	T
TN15-4011	-2	1.5	26	1.8	13.8	W	T	T
TN15-4546	-4	1.7	37	1.6	12.8	P	Lt	T
TN16-520	-1	1.5	29	1.5	12.1	W	G	T
TN16-532	0	1.7	30	1.5	11.8	W	G	T
Mean	-2	1.8	30	1.7	14.3			
LSD(0.05)	2	0.4	2	0.2	0.7			
CV(%)	122	32.0	12	20.0	6.4			

TABLE 16 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST IV-S-LATE 2017

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK	SRK	SC	SC
	Race 1	Race 3	Race 5	GA	GA	RATING	SCORE
Ellis	.	3	5	1.0	1.0	R	1.0
AG 4632RR2Y	.	2	5	2.3	5.0	MR	2.0
AG 4835	.	3	5	2.5	5.0	R	1.0
DA10x05-17F	.	5	5	2.3	1.2	R	1.0
DA10x05-20F	.	4	5	2.5	1.0	R	1.0
DA10x30-09F	.	1	3	1.4	.	R	1.0
DA10x30-48F	.	1	3	1.4	5.2	R	1.0
K14-1717	.	4	5	4.0	4.5	R	1.0
K14-1719	.	3	5	3.3	3.7	R	1.0
R11-328	.	4	5	3.8	5.0	R	1.0
R12-712	.	2	5	1.5	5.0	R	1.0
R13-1019	.	2	4	2.0	4.0	R	1.0
R13-13433	.	3	5	4.5	3.3	SS	3.0
S13-1805C	.	2	2	2.8	1.0	S	5.0
S14-2582C	.	1	5	1.5	1.0	R	1.0
S14-6391C	.	2	5	3.6	1.0	R	1.0
S14-15138R	.	3	4	4.8	4.5	R	1.0
S14-15146R	.	4	4	3.8	4.5	R	1.0
S14-15195R	.	4	5	4.7	5.0	R	1.0
S15-7218R	.	3	4	4.5	4.0	R	1.0
TN14-5021	.	3	1	3.5	5.0	R	1.0
TN14-5035	.	1	1	2.3	5.0	R	1.0
TN15-4011	.	1	1	4.5	5.0	S	5.0
TN15-4546	.	1	1	2.3	5.0	MS	4.0
TN16-520	.	5	5	2.0	1.0	R	1.0
TN16-532	.	4	5	1.5	1.0	R	1.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 17 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	56.2	57.3	63.4	81.2	68.7	64.8	61.2
AG 4632RR2Y	58.7	61.2	71.8	71.4	70.7	63.2	71.1
AG 4835	55.2	69.2	54.9	74.3	70.2	74.0	73.4
DA10x05-17F	43.2	56.6	65.5	75.3	59.3	51.4	54.2
DA10x05-20F	43.5	56.0	50.9	74.0	52.7	48.4	63.1
DA10x30-09F	52.2	68.1	65.9	75.4	63.0	60.5	69.9
DA10x30-48F	57.2	57.8	66.9	71.5	60.1	62.2	44.4
K14-1717	59.3	52.2	71.2	83.3	67.0	65.5	63.3
K14-1719	52.9	57.0	57.9	75.6	62.4	62.3	36.7
R11-328	57.3	48.4	63.1	77.5	59.1	61.6	71.4
R12-712	60.0	35.0	65.1	76.5	56.3	55.1	30.7
R13-1019	57.3	59.2	63.4	73.0	58.2	51.0	70.7
R13-13433	55.2	72.9	60.6	81.3	55.8	48.2	71.8
S13-1805C	59.3	67.3	58.8	79.8	65.8	60.9	69.5
S14-2582C	55.3	45.4	64.6	70.6	70.1	51.7	65.4
S14-6391C	57.4	66.2	59.3	71.6	61.9	64.1	57.9
S14-15138R	59.1	64.9	63.2	68.6	65.0	64.3	68.9
S14-15146R	65.0	63.5	55.0	75.6	60.7	53.8	71.9
S14-15195R	49.5	67.4	51.5	73.3	64.1	57.9	71.0
S15-7218R	48.2	63.9	57.2	68.1	61.9	65.2	67.9
TN14-5021	63.9	58.4	55.2	78.4	68.1	67.9	63.4
TN14-5035	59.8	55.6	58.0	77.7	65.4	67.8	66.7
TN15-4011	59.0	24.7	66.3	84.1	68.7	73.1	57.3
TN15-4546	58.4	67.6	62.3	74.1	54.9	65.6	68.0
TN16-520	58.6	65.8	68.3	76.9	64.9	61.9	62.6
TN16-532	56.3	67.6	71.7	81.7	63.4	52.8	70.6
Mean	56.1	58.8	62.0	75.8	63.0	60.6	63.2
LSD(0.05)	8.0	12.6	16.2	7.8	8.6	5.1	11.2
CV(%)	8.7	13.1	15.0	6.3	8.4	5.1	10.8

TABLE 17 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	43.9	56.1	61.8	72.5	36.4	61.7	60.4
AG 4632RR2Y	51.0	59.7	69.7	75.5	45.3	55.7	63.5
AG 4835	40.6	58.4	67.0	73.1	22.3	58.3	60.8
DA10x05-17F	35.7	51.6	66.8	62.8	43.0	57.2	55.5
DA10x05-20F	42.1	53.5	67.1	62.9	45.1	55.9	55.0
DA10x30-09F	45.2	57.4	52.3	68.9	37.3	49.0	58.8
DA10x30-48F	52.9	63.1	48.3	62.3	40.4	56.9	57.2
K14-1717	55.5	52.5	70.9	68.1	26.3	55.2	60.8
K14-1719	45.8	45.8	61.7	63.3	31.6	46.1	53.8
R11-328	51.0	57.7	63.1	62.8	39.6	53.0	58.9
R12-712	49.5	59.8	58.5	66.4	30.9	49.7	53.3
R13-1019	47.2	55.3	54.5	70.3	36.1	50.5	57.4
R13-13433	50.2	60.1	59.3	71.8	41.5	55.4	60.3
S13-1805C	44.7	51.3	55.7	67.3	39.8	64.4	60.3
S14-2582C	52.1	60.8	59.6	72.5	43.8	46.2	58.3
S14-6391C	47.2	59.1	53.3	69.5	45.1	48.5	58.5
S14-15138R	49.5	61.1	63.1	74.5	48.3	47.5	61.4
S14-15146R	39.3	57.9	52.8	70.4	41.7	46.1	58.0
S14-15195R	43.1	60.1	64.9	76.6	34.5	48.5	58.6
S15-7218R	43.6	56.7	57.2	66.2	42.2	51.7	57.7
TN14-5021	42.0	60.9	59.3	64.5	36.6	57.3	59.7
TN14-5035	44.6	59.4	53.7	67.2	28.7	52.7	58.3
TN15-4011	48.9	54.8	48.2	67.4	30.7	54.8	56.8
TN15-4546	44.7	57.6	49.9	63.6	6.4	50.8	55.7
TN16-520	47.5	65.4	60.5	74.2	37.8	50.3	61.1
TN16-532	45.8	62.0	65.3	71.2	33.7	55.3	61.4
Mean	46.3	57.6	59.4	68.7	36.4	53.0	58.5
LSD(0.05)	8.6	11.7	11.2	4.5	8.3	11.0	5.1
CV(%)	11.4	12.4	11.5	4.0	13.9	12.7	14.0

TABLE 18 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Portageville, MO(B)
Ellis	9/18	9/26	9/28	10/3	10/8	10/4	10/10
AG 4632RR2Y	-6	1	-3	-13	-9	-3	-3
AG 4835	-2	-1	-1	-6	-6	1	0
DA10x05-17F	2	-2	3	0	3	0	1
DA10x05-20F	3	-2	0	0	3	1	3
DA10x30-09F	0	1	1	1	-3	-1	-1
DA10x30-48F	0	1	1	-2	-2	0	-1
K14-1717	-3	-3	-2	-5	-7	-3	0
K14-1719	-4	-3	-6	-12	-12	-8	-3
R11-328	2	-1	1	0	-4	-1	1
R12-712	0	-3	-1	-6	-5	0	-1
R13-1019	0	-1	1	-2	-5	0	0
R13-13433	0	-1	1	-1	-2	0	-1
S13-1805C	0	-1	-1	0	-8	0	-1
S14-2582C	0	-3	1	-2	-5	-3	1
S14-6391C	0	1	0	-8	-10	-3	-5
S14-15138R	0	1	0	-5	-7	-2	-1
S14-15146R	0	-1	-1	-13	-11	-7	-4
S14-15195R	0	0	-1	-4	-10	-3	-3
S15-7218R	0	0	0	-4	-6	-1	-2
TN14-5021	1	1	0	1	-4	-2	-2
TN14-5035	2	1	0	1	-2	-2	-1
TN15-4011	0	0	-1	-1	-4	-4	-3
TN15-4546	0	1	-1	-4	-9	0	0
TN16-520	1	-1	1	-2	1	-1	0
TN16-532	2	1	1	1	-3	-2	0
Mean	0	-1	0	-3	-5	-2	-1
LSD(0.05)	2	2	3	4	4	2	2
CV(%)	1205	251	556	68	53	67	129

TABLE 18 - RELATIVE MATURITY (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	9/25	9/19	9/24	10/24	10/7	10/1
AG 4632RR2Y	-3	-12	-3	-20	-6	-7
AG 4835	-2	-12	-2	-21	-2	-4
DA10x05-17F	0	-2	4	-13	2	0
DA10x05-20F	2	-2	3	-10	3	0
DA10x30-09F	0	-2	-2	-5	1	-1
DA10x30-48F	-1	-2	-2	-11	1	-2
K14-1717	-3	-10	-2	-8	0	-4
K14-1719	-6	-10	-4	-5	-4	-7
R11-328	1	-1	3	-10	1	-1
R12-712	-1	-5	-1	-13	0	-3
R13-1019	1	-4	1	-8	0	-1
R13-13433	2	-4	1	-13	1	-1
S13-1805C	0	-4	1	-3	2	-1
S14-2582C	1	-3	0	-3	3	-1
S14-6391C	-4	-10	-2	-5	-5	-4
S14-15138R	-2	-11	-1	-10	-4	-4
S14-15146R	-4	-20	-4	-10	-8	-7
S14-15195R	-2	-11	-1	-16	-3	-5
S15-7218R	-2	-10	0	-7	-3	-3
TN14-5021	0	-1	-2	-3	2	-1
TN14-5035	1	-2	-2	-9	1	-1
TN15-4011	-3	-2	-1	-5	-2	-2
TN15-4546	-1	-4	0	-24	-2	-4
TN16-520	2	-3	0	-10	2	-1
TN16-532	2	-3	2	-5	2	0
Mean	-1	-6	-1	-10	-1	-2
LSD(0.05)	2	1	2	6	2	2
CV(%)	170	15	174	39	147	122

TABLE 19 - PLANT HEIGHT (INCHES)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	27	19	27	.	29	39	15
AG 4632RR2Y	40	35	41	.	40	44	33
AG 4835	41	38	36	.	42	46	36
DA10x05-17F	27	19	29	.	28	38	18
DA10x05-20F	28	21	30	.	27	39	19
DA10x30-09F	36	30	40	.	31	41	27
DA10x30-48F	35	28	31	.	30	40	25
K14-1717	27	19	29	.	30	34	16
K14-1719	25	22	29	.	27	36	15
R11-328	39	30	38	.	34	41	21
R12-712	28	18	31	.	25	40	20
R13-1019	38	28	36	.	33	42	21
R13-13433	40	29	39	.	32	43	29
S13-1805C	32	22	33	.	35	44	16
S14-2582C	34	22	34	.	32	40	19
S14-6391C	45	36	38	.	42	42	34
S14-15138R	37	33	33	.	37	39	33
S14-15146R	37	33	32	.	34	38	31
S14-15195R	36	39	34	.	38	39	34
S15-7218R	44	39	41	.	42	44	38
TN14-5021	31	22	29	.	31	39	20
TN14-5035	31	25	26	.	31	38	19
TN15-4011	29	18	34	.	29	37	16
TN15-4546	42	37	42	.	40	47	36
TN16-520	31	25	37	.	31	44	16
TN16-532	33	25	36	.	32	45	18
Mean	34	27	34	.	33	41	24
LSD(0.05)	3	4	9	.	4	4	4
CV(%)	6	9	16	.	6	6	9

TABLE 19 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	26	27	31	24	19	27	26
AG 4632RR2Y	30	34	38	35	30	31	36
AG 4835	25	32	39	37	31	31	36
DA10x05-17F	27	28	27	24	20	30	26
DA10x05-20F	28	31	32	24	21	29	27
DA10x30-09F	28	31	33	29	22	27	31
DA10x30-48F	26	31	34	27	22	31	30
K14-1717	25	28	30	23	19	24	25
K14-1719	24	26	27	23	18	24	25
R11-328	28	32	40	27	23	28	32
R12-712	24	27	26	25	19	25	26
R13-1019	29	31	36	28	24	29	31
R13-13433	28	36	34	32	26	31	33
S13-1805C	31	29	31	26	22	29	29
S14-2582C	31	30	35	30	24	27	30
S14-6391C	30	35	36	37	30	30	36
S14-15138R	27	33	36	32	28	26	33
S14-15146R	25	30	33	31	27	27	31
S14-15195R	26	34	36	33	26	28	34
S15-7218R	27	36	38	36	30	28	37
TN14-5021	25	30	28	25	20	28	27
TN14-5035	25	30	30	25	20	28	27
TN15-4011	27	26	24	25	18	27	26
TN15-4546	28	36	39	35	28	30	37
TN16-520	25	31	31	27	21	27	29
TN16-532	27	33	31	28	22	29	30
Mean	27	31	33	29	23	28	30
LSD(0.05)	3	5	3	3	3	4	2
CV(%)	6	9	6	5	8	9	12

TABLE 20 - PLANT LODGING (1-5)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	1.0	1.0	2.7	.	2.0	1.0	1.0
AG 4632RR2Y	1.3	2.3	3.7	.	2.3	1.7	4.0
AG 4835	1.3	1.7	2.3	.	2.0	1.0	2.3
DA10x05-17F	1.3	1.0	3.3	.	2.3	2.0	1.0
DA10x05-20F	1.0	1.0	3.7	.	2.0	1.3	1.0
DA10x30-09F	1.3	1.3	3.0	.	2.0	1.0	1.3
DA10x30-48F	1.0	1.0	2.7	.	1.7	1.3	1.3
K14-1717	1.0	1.0	3.3	.	2.7	2.3	1.0
K14-1719	1.0	1.0	2.0	.	1.7	1.0	1.0
R11-328	1.0	1.0	3.7	.	2.0	2.0	1.0
R12-712	1.0	1.0	3.3	.	1.3	1.7	1.3
R13-1019	1.3	1.0	3.0	.	2.0	2.7	1.0
R13-13433	1.7	1.7	3.3	.	2.3	2.0	1.3
S13-1805C	1.3	1.0	3.7	.	3.7	3.0	1.0
S14-2582C	1.0	1.0	3.0	.	2.3	1.7	1.0
S14-6391C	2.0	2.3	3.3	.	3.7	2.0	4.0
S14-15138R	1.7	1.3	2.0	.	2.7	1.0	3.0
S14-15146R	1.3	1.3	2.7	.	2.0	1.3	2.3
S14-15195R	1.7	1.7	2.3	.	2.0	1.3	2.3
S15-7218R	2.0	3.0	3.0	.	3.3	1.3	2.0
TN14-5021	1.0	1.0	2.0	.	2.0	2.3	1.0
TN14-5035	1.0	1.0	1.3	.	1.7	1.7	1.0
TN15-4011	1.0	1.0	2.7	.	2.0	1.0	1.0
TN15-4546	1.7	1.3	2.7	.	2.0	1.3	2.0
TN16-520	1.0	1.0	2.7	.	2.0	1.7	1.0
TN16-532	1.0	1.0	3.0	.	2.3	2.7	1.0
Mean	1.3	1.3	2.9	.	2.2	1.7	1.6
LSD(0.05)	0.7	0.6	1.0	.	0.7	0.9	0.5
CV(%)	33.0	28.6	22.4	.	19.0	32.5	18.2

TABLE 20 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	1.0	1.0	2.3	1.3	1.0	1.3	1.4
AG 4632RR2Y	1.0	1.0	2.7	3.0	1.0	1.4	2.1
AG 4835	1.0	1.0	2.7	2.7	1.0	1.4	1.7
DA10x05-17F	1.0	1.0	2.3	2.3	1.0	1.3	1.7
DA10x05-20F	1.0	1.5	2.0	3.0	1.0	1.4	1.7
DA10x30-09F	1.0	1.2	2.0	2.3	1.0	1.9	1.6
DA10x30-48F	1.0	1.2	2.0	2.0	1.0	1.9	1.5
K14-1717	2.0	1.5	2.3	2.7	1.0	1.8	1.9
K14-1719	1.0	1.0	2.0	2.7	1.0	1.4	1.4
R11-328	1.0	1.2	2.7	2.7	1.0	1.6	1.7
R12-712	1.0	1.5	2.3	2.0	1.0	1.4	1.6
R13-1019	2.0	1.5	3.7	3.0	1.0	1.7	2.0
R13-13433	1.7	1.5	3.0	2.7	1.0	1.6	2.0
S13-1805C	3.0	1.2	3.0	3.0	1.0	2.2	2.3
S14-2582C	2.0	1.3	3.3	2.7	1.0	1.8	1.8
S14-6391C	2.0	1.3	3.7	4.0	1.3	1.5	2.6
S14-15138R	1.0	1.0	3.3	2.7	1.0	1.5	1.8
S14-15146R	1.0	1.0	2.7	2.0	1.0	1.4	1.7
S14-15195R	1.0	1.0	2.3	2.7	1.0	1.2	1.7
S15-7218R	1.0	1.0	3.0	3.0	1.0	1.9	2.1
TN14-5021	1.0	1.3	2.7	1.7	1.0	1.7	1.6
TN14-5035	1.0	1.0	3.3	1.7	1.0	1.4	1.4
TN15-4011	2.0	1.0	2.0	1.7	1.0	1.9	1.5
TN15-4546	1.0	1.0	2.7	2.0	1.0	1.7	1.7
TN16-520	1.0	1.0	2.3	1.3	1.0	1.7	1.5
TN16-532	1.0	1.2	3.0	1.3	1.0	1.8	1.7
Mean	1.3	1.2	2.7	2.4	1.0	1.6	1.8
LSD(0.05)	0.2	0.4	0.8	0.8	0.2	0.4	0.4
CV(%)	8.7	19.7	18.8	20.3	11.2	16.7	32.2

TABLE 21 - SEED QUALITY (1-5)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	1.0	1.0	2.0	2.0	.	2.0	1.7
AG 4632RR2Y	1.7	1.0	2.3	2.5	.	3.0	2.0
AG 4835	1.0	1.0	2.3	1.5	.	3.0	2.0
DA10x05-17F	1.2	1.0	2.3	1.5	.	3.0	2.3
DA10x05-20F	1.0	1.0	2.3	2.0	.	3.0	2.0
DA10x30-09F	1.0	1.0	2.0	1.5	.	4.0	1.7
DA10x30-48F	1.0	1.0	2.0	1.5	.	3.0	1.3
K14-1717	1.0	1.0	2.0	1.5	.	3.0	2.3
K14-1719	1.0	1.0	2.3	2.0	.	3.0	2.3
R11-328	1.0	1.0	2.0	2.0	.	3.0	2.0
R12-712	1.0	1.0	2.0	2.0	.	3.0	2.0
R13-1019	1.0	1.0	2.0	1.5	.	2.0	1.3
R13-13433	1.0	1.0	2.0	1.0	.	3.0	2.0
S13-1805C	1.0	1.0	2.3	2.5	.	3.0	2.3
S14-2582C	1.0	1.0	2.3	2.0	.	3.0	2.3
S14-6391C	1.0	1.0	2.3	2.0	.	3.0	2.0
S14-15138R	1.0	1.0	2.0	2.5	.	3.0	2.0
S14-15146R	1.0	2.0	2.7	2.0	.	3.0	2.0
S14-15195R	1.0	1.0	2.7	2.5	.	3.0	1.7
S15-7218R	1.5	1.0	2.3	2.0	.	3.0	3.0
TN14-5021	1.3	1.0	2.0	1.5	.	3.0	2.0
TN14-5035	1.2	1.0	2.0	1.5	.	3.0	2.0
TN15-4011	1.0	1.0	2.0	2.0	.	3.0	2.0
TN15-4546	1.2	1.0	2.0	1.5	.	3.0	1.7
TN16-520	1.0	1.0	2.0	1.5	.	3.0	1.3
TN16-532	1.0	1.0	2.0	1.5	.	3.0	1.3
Mean	1.1	1.0	2.2	1.8	.	3.0	1.9
LSD(0.05)	0.2	.	0.6	.	.	.	0.7
CV(%)	11.6	.	16.8	.	.	.	22.8

TABLE 21 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	1.0	.	2.0	2.0	1.0	1.2	1.5
AG 4632RR2Y	2.0	.	2.0	2.5	1.0	1.3	1.9
AG 4835	1.3	.	2.0	1.5	1.0	1.3	1.7
DA10x05-17F	1.7	.	2.0	1.5	1.0	1.2	1.7
DA10x05-20F	2.0	.	2.0	2.0	1.0	1.2	1.8
DA10x30-09F	1.0	.	2.0	2.0	1.0	1.2	1.6
DA10x30-48F	1.0	.	2.0	1.5	1.0	1.1	1.5
K14-1717	1.7	.	2.0	1.5	1.0	1.4	1.7
K14-1719	2.0	.	2.0	1.5	1.0	1.5	1.8
R11-328	1.7	.	2.0	1.5	1.0	1.5	1.7
R12-712	1.7	.	2.0	1.5	1.0	1.4	1.7
R13-1019	1.0	.	2.0	2.0	1.0	1.1	1.4
R13-13433	1.0	.	2.0	1.5	1.0	1.2	1.5
S13-1805C	1.7	.	3.0	2.0	1.0	1.3	1.9
S14-2582C	2.0	.	2.0	1.5	1.0	1.4	1.8
S14-6391C	2.0	.	3.0	2.0	1.0	1.9	1.9
S14-15138R	2.3	.	2.0	2.0	1.0	1.4	1.8
S14-15146R	2.3	.	3.0	1.5	1.0	1.4	2.0
S14-15195R	1.7	.	3.0	2.0	1.0	1.2	1.8
S15-7218R	2.0	.	2.0	1.5	1.0	1.5	2.0
TN14-5021	1.0	.	2.0	1.5	1.0	1.5	1.6
TN14-5035	1.0	.	2.0	1.5	1.0	1.4	1.6
TN15-4011	2.0	.	3.0	2.0	1.0	1.4	1.8
TN15-4546	1.3	.	3.0	1.0	1.0	1.3	1.6
TN16-520	1.0	.	2.0	1.5	1.0	1.2	1.5
TN16-532	1.0	.	2.0	1.5	1.0	1.2	1.5
Mean	1.6	.	2.2	1.7	1.0	1.3	1.7
LSD(0.05)	0.6	.	.	.	.	0.2	0.2
CV(%)	23.1	.	.	.	0.0	11.2	19.5

TABLE 22 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	13.2	14.3	12.7	13.3	.	11.5	14.6
AG 4632RR2Y	14.3	15.5	14.9	15.6	.	14.0	14.6
AG 4835	11.6	13.7	14.0	14.6	.	13.6	15.0
DA10x05-17F	16.1	20.2	16.5	16.7	.	14.5	18.2
DA10x05-20F	15.4	19.7	15.2	15.8	.	11.2	16.8
DA10x30-09F	10.6	11.8	11.3	12.0	.	12.3	12.0
DA10x30-48F	11.1	14.0	10.9	12.0	.	11.8	13.0
K14-1717	15.9	16.4	15.0	15.1	.	14.4	16.4
K14-1719	14.6	14.9	14.6	13.1	.	13.6	14.6
R11-328	13.6	17.3	13.7	15.0	.	12.8	15.4
R12-712	14.9	16.7	13.6	14.7	.	13.9	17.0
R13-1019	12.4	14.9	12.7	12.9	.	11.8	13.9
R13-13433	15.1	19.0	16.2	16.7	.	14.0	18.2
S13-1805C	13.4	15.8	14.4	15.8	.	14.2	16.3
S14-2582C	13.4	15.9	15.0	13.5	.	14.2	15.0
S14-6391C	15.7	18.2	16.3	15.6	.	15.6	16.3
S14-15138R	14.8	16.5	16.0	16.4	.	16.3	15.9
S14-15146R	15.1	15.0	15.7	15.7	.	15.1	15.3
S14-15195R	13.0	16.9	14.8	14.6	.	13.9	15.4
S15-7218R	16.1	15.9	17.5	18.1	.	16.6	19.5
TN14-5021	12.9	15.3	13.3	12.9	.	11.8	14.0
TN14-5035	12.8	15.2	13.3	13.1	.	11.8	13.7
TN15-4011	14.4	13.7	13.7	14.9	.	13.0	14.8
TN15-4546	11.8	13.5	12.3	13.7	.	12.8	14.1
TN16-520	11.9	14.5	11.7	11.7	.	10.8	12.8
TN16-532	11.6	14.1	11.4	12.2	.	10.3	12.3
Mean	13.7	15.7	14.1	14.5	.	13.3	15.2
LSD(0.05)	1.1	.	1.4	.	.	.	1.1
CV(%)	4.7	.	5.9	.	.	.	4.5

TABLE 22 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	12.6	.	12.8	12.8	14.1	11.9	13.1
AG 4632RR2Y	16.7	.	14.2	14.4	14.0	15.8	14.9
AG 4835	16.3	.	11.8	11.3	12.4	14.8	13.6
DA10x05-17F	16.5	.	16.5	16.2	17.2	16.0	16.8
DA10x05-20F	16.0	.	16.7	16.1	16.6	17.0	16.1
DA10x30-09F	11.1	.	11.9	11.8	11.7	11.7	11.6
DA10x30-48F	11.9	.	11.6	12.1	12.3	11.2	11.9
K14-1717	17.1	.	14.9	14.5	14.4	14.9	15.4
K14-1719	15.2	.	13.6	14.4	14.7	14.9	14.5
R11-328	14.8	.	14.3	13.7	15.0	13.8	14.4
R12-712	15.9	.	14.6	15.2	14.6	15.6	15.2
R13-1019	12.9	.	12.7	13.3	12.7	12.1	12.9
R13-13433	16.3	.	16.5	15.1	16.3	14.7	16.2
S13-1805C	15.1	.	13.9	15.0	14.9	15.4	14.9
S14-2582C	15.2	.	14.3	14.4	15.4	15.2	14.7
S14-6391C	17.0	.	14.2	14.8	15.3	15.9	15.9
S14-15138R	18.4	.	17.6	14.7	15.4	16.1	16.2
S14-15146R	16.4	.	13.6	13.4	14.1	15.4	15.1
S14-15195R	16.2	.	13.4	12.7	13.6	14.8	14.5
S15-7218R	17.7	.	16.9	16.7	16.9	17.2	17.2
TN14-5021	12.7	.	12.7	12.8	13.3	12.5	13.1
TN14-5035	13.1	.	12.8	12.5	13.0	13.0	13.1
TN15-4011	13.6	.	13.1	14.3	13.1	13.2	13.8
TN15-4546	13.8	.	12.5	12.6	10.5	13.5	12.8
TN16-520	13.2	.	12.3	11.4	12.0	11.4	12.1
TN16-532	11.9	.	11.7	11.5	11.8	11.1	11.8
Mean	14.9	.	13.9	13.8	14.1	14.2	14.3
LSD(0.05)	1.2	.	.	.	1.1	0.6	0.7
CV(%)	4.9	.	.	.	5.0	2.4	6.4

TABLE 23 - OIL (%)†
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	19.0	.	19.5	17.8	18.1	17.9	17.9
AG 4632RR2Y	19.8	.	20.2	19.2	19.8	19.3	19.5
AG 4835	19.0	.	19.7	17.5	18.5	19.0	18.0
DA10x05-17F	19.1	.	19.2	18.4	19.0	17.8	17.8
DA10x05-20F	19.4	.	17.9	18.3	18.7	18.3	18.3
DA10x30-09F	18.1	.	18.2	17.2	16.8	19.2	17.2
DA10x30-48F	18.7	.	18.4	17.9	17.7	18.3	18.2
K14-1717	18.5	.	18.4	17.8	17.9	18.3	17.5
K14-1719	18.7	.	19.5	17.9	18.5	18.2	18.9
R11-328	19.0	.	19.6	18.0	18.0	18.7	18.4
R12-712	18.5	.	18.5	17.9	17.4	17.5	17.4
R13-1019	18.0	.	18.7	17.4	17.2	18.1	17.6
R13-13433	20.0	.	20.6	18.9	19.2	19.1	19.0
S13-1805C	19.8	.	20.5	19.3	19.6	19.7	19.0
S14-2582C	19.3	.	19.0	18.3	18.4	17.9	18.4
S14-6391C	18.9	.	19.4	18.2	19.2	18.3	18.2
S14-15138R	19.7	.	18.6	18.6	19.5	19.2	18.8
S14-15146R	20.3	.	20.4	19.2	20.5	19.5	19.6
S14-15195R	19.8	.	20.2	18.8	19.2	18.3	18.9
S15-7218R	19.6	.	20.0	18.6	19.2	18.9	19.0
TN14-5021	19.4	.	20.2	18.7	18.7	18.7	18.7
TN14-5035	18.1	.	19.8	18.6	18.5	18.9	18.6
TN15-4011	19.8	.	20.2	19.0	19.0	19.1	19.4
TN15-4546	19.1	.	19.7	18.6	19.4	19.2	19.1
TN16-520	19.0	.	19.4	18.0	18.1	18.4	18.4
TN16-532	19.1	.	19.1	18.1	18.0	18.0	17.9
Mean	19.1	.	19.4	18.3	18.6	18.6	18.4
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 23 - OIL (%)† (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	18.4	18.5	18.5	19.1	19.0	16.5	18.4
AG 4632RR2Y	19.2	19.2	20.5	20.0	21.1	18.9	19.7
AG 4835	19.0	18.7	18.6	18.7	20.7	18.8	18.9
DA10x05-17F	18.9	18.3	19.4	19.1	20.0	18.3	18.8
DA10x05-20F	18.8	19.0	19.4	19.2	20.5	18.7	18.9
DA10x30-09F	18.3	17.2	18.6	18.2	18.4	17.8	17.9
DA10x30-48F	18.6	18.1	18.1	18.8	18.9	19.3	18.4
K14-1717	18.7	18.4	18.8	18.2	19.6	19.1	18.4
K14-1719	18.6	18.3	19.1	18.7	19.9	18.4	18.7
R11-328	18.7	18.4	19.0	18.8	19.7	18.4	18.7
R12-712	18.2	17.7	18.3	18.3	18.4	17.7	18.0
R13-1019	18.6	18.6	18.9	17.7	19.9	18.0	18.2
R13-13433	20.2	19.4	21.6	20.2	21.5	19.3	19.9
S13-1805C	20.2	19.6	20.1	20.0	20.3	20.5	19.9
S14-2582C	18.8	19.1	19.2	19.3	19.4	18.5	18.8
S14-6391C	18.3	18.6	19.0	19.4	20.3	18.7	18.9
S14-15138R	19.3	19.6	19.7	18.8	19.8	19.4	19.3
S14-15146R	19.4	20.1	21.5	20.2	21.1	19.6	20.1
S14-15195R	19.1	19.0	19.3	19.3	20.1	18.6	19.2
S15-7218R	19.3	19.4	19.6	19.5	20.5	19.1	19.4
TN14-5021	19.8	19.3	19.5	19.1	20.0	19.2	19.3
TN14-5035	19.9	19.1	19.5	19.3	20.4	18.8	19.1
TN15-4011	19.5	19.4	20.7	20.0	20.9	19.3	19.7
TN15-4546	19.3	19.2	19.3	19.6	20.2	19.1	19.3
TN16-520	18.6	18.5	19.4	18.9	19.8	18.1	18.7
TN16-532	18.3	18.6	18.8	19.1	19.9	18.2	18.6
Mean	19.0	18.8	19.4	19.1	20.0	18.7	19.0
LSD(0.05)	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	2.1

TABLE 24 - PROTEIN (%)†
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)
Ellis	34.7	.	34.1	35.8	35.2	35.0	35.7
AG 4632RR2Y	32.7	.	32.9	34.0	32.9	34.0	33.2
AG 4835	33.4	.	33.9	36.9	35.4	35.1	35.8
DA10x05-17F	33.1	.	34.4	35.1	34.3	36.1	35.4
DA10x05-20F	33.1	.	35.8	34.5	34.5	35.9	35.1
DA10x30-09F	35.2	.	35.7	37.0	37.3	31.9	37.2
DA10x30-48F	35.7	.	37.3	36.7	36.8	36.3	37.0
K14-1717	36.0	.	36.0	36.4	37.8	35.6	36.6
K14-1719	35.9	.	35.3	35.9	35.8	35.9	35.4
R11-328	34.8	.	35.0	35.9	36.2	34.9	35.6
R12-712	37.4	.	37.4	37.6	38.7	37.7	38.8
R13-1019	35.7	.	35.8	36.5	37.0	35.6	36.8
R13-13433	33.8	.	33.2	34.7	35.0	33.8	34.5
S13-1805C	34.3	.	34.0	35.6	35.7	34.1	35.1
S14-2582C	35.2	.	36.5	36.3	36.8	37.5	37.0
S14-6391C	34.8	.	34.4	36.3	35.7	36.6	36.2
S14-15138R	34.1	.	32.9	37.3	35.4	36.0	36.3
S14-15146R	34.0	.	33.8	35.1	33.8	35.1	34.2
S14-15195R	33.7	.	34.5	36.4	35.6	36.8	35.8
S15-7218R	33.4	.	34.1	35.6	34.1	34.8	35.9
TN14-5021	35.1	.	34.2	35.9	36.5	35.2	37.0
TN14-5035	34.0	.	35.2	35.1	36.6	34.8	36.6
TN15-4011	33.5	.	32.8	33.5	33.8	33.3	33.3
TN15-4546	33.1	.	32.1	33.5	32.3	32.2	32.8
TN16-520	34.7	.	34.4	34.9	35.8	35.3	35.0
TN16-532	34.5	.	34.6	35.2	35.9	35.2	36.3
Mean	34.4	.	34.6	35.7	35.6	35.2	35.7
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 24 - PROTEIN (%)† (continued)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	35.1	34.7	34.4	33.9	34.4	34.3	34.8
AG 4632RR2Y	32.7	33.9	32.7	32.2	30.9	34.3	33.0
AG 4835	35.3	34.8	35.3	34.3	31.5	34.5	34.7
DA10x05-17F	34.4	36.0	33.1	33.8	33.6	35.0	34.5
DA10x05-20F	35.3	34.7	33.6	33.6	31.2	34.7	34.3
DA10x30-09F	35.3	36.3	35.7	35.2	35.9	36.6	35.8
DA10x30-48F	36.5	36.4	36.5	35.7	35.7	34.1	36.2
K14-1717	35.5	35.3	35.3	35.7	34.5	35.0	35.8
K14-1719	35.6	36.2	35.9	35.4	33.5	35.2	35.5
R11-328	35.7	35.9	35.6	35.5	34.4	36.1	35.5
R12-712	36.8	37.9	37.5	38.4	38.2	38.3	37.9
R13-1019	35.1	35.6	36.1	37.0	33.7	35.3	35.8
R13-13433	33.7	33.7	32.1	33.7	30.3	34.4	33.6
S13-1805C	33.6	34.6	35.2	34.2	34.6	31.9	34.4
S14-2582C	36.3	34.8	36.6	36.6	35.6	36.7	36.3
S14-6391C	34.8	35.3	35.6	34.6	32.9	35.1	35.2
S14-15138R	35.4	34.6	35.7	36.0	35.1	35.5	35.4
S14-15146R	33.1	33.6	33.5	33.9	31.7	33.9	33.8
S14-15195R	35.3	35.5	36.2	34.9	34.8	36.2	35.5
S15-7218R	34.0	34.3	36.5	33.2	32.1	34.1	34.3
TN14-5021	34.0	35.2	35.1	35.0	33.8	34.3	35.1
TN14-5035	33.4	35.5	34.4	35.1	33.7	34.8	34.9
TN15-4011	33.1	33.6	34.2	33.2	31.8	32.8	33.2
TN15-4546	32.4	32.4	33.5	32.1	32.3	33.4	32.7
TN16-520	34.8	34.7	33.8	34.6	33.8	35.1	34.7
TN16-532	35.2	34.2	34.2	33.9	33.3	34.7	34.7
Mean	34.7	35.0	34.9	34.7	33.6	34.8	34.9
LSD(0.05)	.	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	.	2.2

TABLE 25 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP IV-S-EARLY 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AG 4232RR2Y	Commercial check	Commercial		RR2	
2	AG 4135	Commercial check	Commercial		RR2	
3	LD06-7620	IA3023 x LD00-3309			Conv	
4	AG 3934RR2	Commercial check	Commercial		RR2	
5	DS31-243	LG04-1459 x [DT97-4290(2) x PI587982A]	Smith	F5	Conv	High Germ, 25% exotic
6	DS3H-211	LG04-1459-6 x S07-5049	Smith	F4	Conv	Yield, 12.5% exotic
7	LG11-8169-007F	LG06-2354 x LG05-4354	Gillen		Conv	
8	LG11-8169-091F	LG06-2354 x LG05-4354	Gillen		Conv	
9	S15-2702R	S10-2223 x S05-11482	Chen		RR2	
10	S15-5904R	S09-9943 x S11-9618RR	Chen		RR2	High Protein
11	S15-6037R	LS07-1343 x S11-9618RR	Chen		RR2	
12	S15-7499R	LG10-2695 x S11-8642RR	Chen		RR1	
13	S15-9779R	V08-1924 x S09-6262RR1	Chen		RR1	
14	S15-10924C	S11-17025 x S08-17361	Chen		Conv	
15	S15-12003C	LS07-3131 x S11-21219	Chen		Conv	
16	S15-17688C	S11-15857 x CR12-735TP	Chen		Conv	HO
17	S15-18319R	S10-2223 x CR11-596 F1TP	Chen		RR2	HO, High Protein
18	SA13-1464	K07-1633 x LD04-13265	Scaboo	F4	Conv	
19	SA14-5754	LD07-3419 x LD04-13265	Scaboo	F4	Conv	
20	SA14-5854	LD07-3419 x LD04-13265	Scaboo	F4	Conv	
21	TNLR-07	TN10-4037 x (NC-Raleigh x (NC-Burton x (PI603452 x PI283327)))	Pantalone		Conv	Oleic ? 75%
22	TNLR-12	TN10-4037 x (NC-Raleigh x (NC-Burton x (PI603452 x PI283327)))	Pantalone		Conv	Oleic ? 75%
23	V11-2263	LG04-6000 x V03-7833	Zhang	F4	Conv	> 50% meal, LP, Sugars
24	V13-0116	V02-8659 x Schillinger 495	Zhang	F4	RR1	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 26 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST IV-S-EARLY 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 1	Race 3	Race 5	SC RATING	SC SCORE
AG 4232RR2Y	61.7	13	12	0	2.6	32	.	4	4	MR	2
AG 4135	69.3	2	5	-7	2.3	32	.	3	4	MR	2
LD06-7620	57.2	18	15	-8	1.9	26	.	5	4	SS	3
AG 3934RR2	47.0	24	22	-10	2.3	27	.	5	3	MR	2
DS31-243	62.6	11	11	-6	3.7	35	.	5	4	R	1
DS3H-211	62.8	8	11	-3	3.8	34	.	5	4	R	1
LG11-8169-007F	66.8	3	6	-3	3.1	34	.	5	4	R	1
LG11-8169-091F	65.4	4	8	-7	2.6	34	.	4	4	R	1
S15-2702R	59.0	17	14	-5	2.1	34	.	2	1	R	1
S15-5904R	70.5	1	6	3	2.3	33	.	4	4	MS	4
S15-6037R	62.9	7	10	-2	1.6	33	.	4	5	R	1
S15-7499R	60.0	15	13	-4	2.9	35	.	5	5	R	1
S15-9779R	62.6	10	11	-1	3.2	33	.	4	4	R	1
S15-10924C	61.0	14	11	0	2.6	30	.	3	4	R	1
S15-12003C	62.7	9	12	-2	2.4	35	.	1	2	R	1
S15-17688C	53.2	22	20	-8	2.6	35	.	3	4	S	5
S15-18319R	56.9	19	17	-6	2.0	34	.	3	3	R	1
SA13-1464	59.4	16	14	-10	1.9	27	.	2	4	R	1
SA14-5754	64.8	6	9	-7	2.1	31	.	4	5	R	1
SA14-5854	55.9	21	17	-8	2.1	31	.	3	5	R	1
TNLR-07	56.8	20	16	-3	3.3	38	.	4	4	R	1
TNLR-12	50.7	23	17	-5	3.8	36	.	5	4	R	1
V11-2263	65.4	5	8	-3	2.2	35	.	5	5	R	1
V13-0116	62.1	12	12	3	2.9	39	.	5	5	R	1
Mean	60.7	.	.	-4	2.6	33	.	.	.		.
LSD(0.05)	10.2	.	.	3	.	3	.	.	.		.
CV(%)	13.3	.	.	62	.	11	.	.	.		.

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

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

TABLE 26 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST IV-S-EARLY 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
AG 4232RR2Y	2.1	14.6	33.9	19.6	P	Lt	T
AG 4135	2.2	15.3	34.4	20.3	W	G	Br
LD06-7620	2.7	14.6	35.6	19.5	P	G	Br
AG 3934RR2	2.6	16.2	34.3	20.0	P	G	Br
DS31-243	2.1	13.5	35.0	18.8	W	G	Br
DS3H-211	2.1	14.3	34.3	20.3	P	Lt/G	T
LG11-8169-007F	2.0	15.0	35.9	19.2	P	T	Br
LG11-8169-091F	2.6	15.9	35.4	19.7	P	G	Br
S15-2702R	2.7	13.8	34.7	20.1	W	G	T
S15-5904R	2.2	15.3	36.0	18.9	W	G	T
S15-6037R	3.1	15.9	35.2	20.2	W	G	T
S15-7499R	2.6	14.6	34.2	19.7	W	G	
S15-9779R	2.5	17.0	34.4	20.0	P	Lt	T
S15-10924C	2.3	17.0	35.1	20.0	W	T	T
S15-12003C	2.8	15.3	35.4	19.8	P	G	Br
S15-17688C	2.6	16.0	36.1	19.6	P	G	Br
S15-18319R	2.9	14.5	35.4	19.5	W	G	Br
SA13-1464	2.1	15.4	34.8	20.9	P	G	T
SA14-5754	2.7	15.6	34.6	20.4	P	G	T
SA14-5854	2.6	15.0	34.1	20.7	P	G	T
TNLR-07	2.2	13.3	33.7	19.4	W	G	Br
TNLR-12	1.9	13.7	33.3	20.4	W	G	Br
V11-2263	2.1	14.5	35.4	19.7	W	T	T
V13-0116	2.0	13.3	35.4	19.4	P	T	T
Mean	2.4	15.0	34.8	19.8			
LSD(0.05)	0.7	0.9	1.3	0.9			
CV(%)	22.8	5.2	3.4	3.8			

TABLE 27 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	*Columbia, MO*	*Jackson, TN*	*Keiser, AR*	*Knoxville, TN†*	*Stoneville, MS*	*Stuttgart, AR*	*Test Mean*
AG 4232RR2Y		51.5	66.4	21.8	66.9	47.1	61.7
AG 4135	74.2	60.0	81.1	41.1	53.9	67.9	69.3
LD06-7620	70.6	46.9	59.7	35.9	40.3	58.3	57.2
AG 3934RR2	56.0	32.5	54.8	15.6	46.1	27.7	47.0
DS31-243	66.0	52.0	62.0	22.6	57.2	65.2	62.6
DS3H-211	62.9	59.0	68.4	52.5	58.8	60.9	62.8
LG11-8169-007F	71.5	57.0	75.3	53.3	56.3	64.1	66.8
LG11-8169-091F	72.1	51.8	74.5	38.0	55.8	59.3	65.4
S15-2702R	68.0	46.1	67.7	56.1	45.0	55.2	59.0
S15-5904R	59.2	45.1	76.2	27.3	78.1	68.5	70.5
S15-6037R	64.6	43.9	73.0	36.0	58.2	55.9	62.9
S15-7499R	64.0	49.3	72.4	37.4	56.9	46.6	60.0
S15-9779R	60.2	51.9	70.5	49.9	60.0	59.7	62.6
S15-10924C	66.2	52.1	74.6	25.6	59.8	43.3	61.0
S15-12003C	59.6	44.1	69.9	42.1	65.8	55.4	62.7
S15-17688C	62.7	44.4	56.6	39.6	44.4	49.0	53.2
S15-18319R	62.8	44.8	58.2	53.5	47.6	59.0	56.9
SA13-1464	76.2	62.3	62.7	41.6	44.3	54.5	59.4
SA14-5754	69.7	57.2	70.6	52.1	55.1	64.0	64.8
SA14-5854	65.6	50.0	65.2	49.0	41.6	51.4	55.9
TNLR-07	66.4	56.1	56.6	57.0	50.8	53.6	56.8
TNLR-12	69.7	50.7	46.0	46.6	51.0	36.1	50.7
V11-2263	63.7	55.2	72.2	52.9	60.0	65.5	65.4
V13-0116	52.9	47.4	68.6	49.8	64.6	62.3	62.1
Mean	65.4	50.5	66.8	41.6	54.9	55.4	60.7
LSD(0.05)	10.5	20.1	10.1	21.0	11.2	11.9	10.2
CV(%)	7.8	17.1	7.3	24.4	9.9	10.2	13.3

† Data not included in the mean: Knoxville, TN

TABLE 28 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	9/29	9/27	.	9/22	8/27	9/19	9/19
AG 4135	-7	-10	.	-4	-8	-6	-7
LD06-7620	-8	-13	.	-6	-8	-5	-8
AG 3934RR2	-8	-15	.	-6	-10	-11	-10
DS31-243	-6	-13	.	2	-5	-6	-6
DS3H-211	-2	-7	.	2	0	-7	-3
LG11-8169-007F	-2	-6	.	-1	-1	-4	-3
LG11-8169-091F	-8	-15	.	-2	-3	-5	-7
S15-2702R	-7	-7	.	-1	-4	-5	-5
S15-5904R	-1	0	.	6	8	2	3
S15-6037R	-2	-4	.	2	-6	0	-2
S15-7499R	-4	-9	.	-2	-2	-5	-4
S15-9779R	-2	-5	.	-2	2	2	-1
S15-10924C	-2	-1	.	-2	2	2	0
S15-12003C	-4	-7	.	1	-1	1	-2
S15-17688C	-6	-17	.	-3	-12	-3	-8
S15-18319R	-4	-13	.	-2	-7	-5	-6
SA13-1464	-8	-17	.	-4	-10	-11	-10
SA14-5754	-8	-13	.	-2	-9	-5	-7
SA14-5854	-8	-15	.	-4	-9	-5	-8
TNLR-07	-6	-8	.	2	-4	0	-3
TNLR-12	-7	-9	.	-2	-6	-3	-5
V11-2263	-1	-8	.	1	-3	-3	-3
V13-0116	-1	0	.	4	8	1	3
Mean	-5	-9	.	-1	-4	-3	-4
LSD(0.05)	2	6	.	3	2	3	3
CV(%)	26	32	.	146	25	39	62

TABLE 29 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	33	38	.	26	40	25	32
AG 4135	35	35	.	24	39	27	32
LD06-7620	33	26	.	18	31	25	26
AG 3934RR2	32	30	.	20	34	23	27
DS31-243	43	38	.	24	40	33	35
DS3H-211	44	37	.	29	35	28	34
LG11-8169-007F	39	39	.	28	35	29	34
LG11-8169-091F	43	37	.	26	38	26	34
S15-2702R	35	33	.	31	40	30	34
S15-5904R	38	36	.	23	40	30	33
S15-6037R	37	33	.	24	45	29	33
S15-7499R	41	35	.	30	40	30	35
S15-9779R	38	35	.	27	39	28	33
S15-10924C	35	30	.	25	38	25	30
S15-12003C	45	32	.	31	36	30	35
S15-17688C	41	30	.	34	41	31	35
S15-18319R	41	32	.	33	36	27	34
SA13-1464	33	29	.	22	30	24	27
SA14-5754	35	36	.	25	36	25	31
SA14-5854	33	31	.	26	35	30	31
TNLR-07	42	41	.	31	42	32	38
TNLR-12	41	39	.	30	38	33	36
V11-2263	37	39	.	27	39	32	35
V13-0116	42	44	.	34	42	32	39
Mean	38	35	.	27	38	28	33
LSD(0.05)	4	11	.	8	4	7	3
CV(%)	5	15	.	15	6	12	11

TABLE 30 - PLANT LODGING (1-5)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	2.5	3.0	.	2.5	3.0	2.0	2.6
AG 4135	1.5	3.0	.	3.0	2.0	2.0	2.3
LD06-7620	1.5	2.5	.	2.0	2.0	1.5	1.9
AG 3934RR2	1.7	2.5	.	2.5	2.5	2.0	2.3
DS31-243	3.5	4.0	.	3.0	4.0	4.0	3.7
DS3H-211	4.3	3.0	.	2.5	4.5	4.5	3.8
LG11-8169-007F	2.5	4.0	.	3.0	3.0	3.0	3.1
LG11-8169-091F	2.0	3.0	.	3.0	2.5	2.5	2.6
S15-2702R	2.0	1.5	.	3.0	2.5	1.5	2.1
S15-5904R	1.7	2.0	.	3.0	2.5	2.0	2.3
S15-6037R	1.5	1.0	.	2.5	2.0	1.0	1.6
S15-7499R	2.7	3.0	.	3.0	2.5	3.0	2.9
S15-9779R	3.0	3.0	.	4.0	3.5	2.5	3.2
S15-10924C	2.2	2.5	.	3.0	2.5	2.5	2.6
S15-12003C	3.0	2.0	.	2.5	3.0	1.5	2.4
S15-17688C	3.0	1.5	.	3.0	2.5	3.0	2.6
S15-18319R	2.0	1.5	.	2.0	2.5	2.0	2.0
SA13-1464	1.5	2.0	.	2.0	2.0	2.0	1.9
SA14-5754	1.5	3.0	.	2.0	2.0	2.0	2.1
SA14-5854	1.5	3.0	.	2.0	2.0	2.0	2.1
TNLR-07	3.0	4.0	.	2.5	3.0	4.0	3.3
TNLR-12	3.0	4.0	.	3.5	4.0	4.5	3.8
V11-2263	1.5	3.0	.	2.0	2.5	2.0	2.2
V13-0116	2.5	3.5	.	2.5	3.0	3.0	2.9
Mean	2.3	2.7	.	2.7	2.7	2.5	2.6
LSD(0.05)	0.7	1.3	.	0.8	1.0	1.3	0.6
CV(%)	15.7	22.9	.	15.3	17.5	25.0	24.4

TABLE 31 - SEED QUALITY (1-5)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	1.8	2.0	2.5	.	2.0	2.0	2.1
AG 4135	1.0	3.0	2.0	.	3.0	2.0	2.2
LD06-7620	1.0	3.5	3.0	.	3.0	3.0	2.7
AG 3934RR2	1.5	3.0	3.5	.	3.0	2.0	2.6
DS31-243	1.5	2.5	2.5	.	2.0	2.0	2.1
DS3H-211	1.8	2.5	2.5	.	2.0	1.5	2.1
LG11-8169-007F	1.3	2.0	2.0	.	3.0	2.0	2.0
LG11-8169-091F	1.5	3.0	3.5	.	3.0	2.0	2.6
S15-2702R	1.0	3.5	3.5	.	3.0	2.5	2.7
S15-5904R	1.0	2.5	2.5	.	3.0	2.0	2.2
S15-6037R	1.8	4.0	4.5	.	3.0	2.0	3.1
S15-7499R	1.3	3.5	2.5	.	3.0	3.0	2.6
S15-9779R	1.3	3.0	3.0	.	3.0	2.5	2.5
S15-10924C	1.5	3.0	2.0	.	3.0	2.0	2.3
S15-12003C	1.8	3.5	4.5	.	2.0	2.0	2.8
S15-17688C	1.5	3.0	3.5	.	3.0	2.0	2.6
S15-18319R	1.5	4.0	4.0	.	3.0	2.0	2.9
SA13-1464	1.5	3.0	1.5	.	3.0	1.5	2.1
SA14-5754	1.5	2.5	4.5	.	3.0	2.0	2.7
SA14-5854	1.0	3.0	4.0	.	3.0	2.0	2.6
TNLR-07	1.5	2.0	3.5	.	2.0	2.0	2.2
TNLR-12	1.3	2.0	1.5	.	2.0	2.5	1.9
V11-2263	1.8	2.0	2.5	.	2.0	2.0	2.1
V13-0116	1.8	2.0	2.5	.	2.0	1.5	2.0
Mean	1.4	2.8	3.0	.	2.7	2.1	2.4
LSD(0.05)	0.5	0.8	.	.	.	.	0.7
CV(%)	15.9	14.4	.	.	.	.	22.8

TABLE 32 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	15.0	14.2	15.0	.	13.5	15.0	14.6
AG 4135	15.2	14.1	15.5	.	16.5	15.0	15.3
LD06-7620	13.5	14.2	16.5	.	14.4	14.5	14.6
AG 3934RR2	16.6	15.6	16.0	.	16.1	16.3	16.2
DS31-243	13.6	12.7	14.6	.	12.7	13.8	13.5
DS3H-211	13.0	15.0	14.8	.	14.7	13.6	14.3
LG11-8169-007F	14.6	14.1	16.3	.	15.0	14.8	15.0
LG11-8169-091F	15.2	15.3	17.9	.	14.8	16.2	15.9
S15-2702R	12.7	13.0	14.2	.	15.9	13.8	13.8
S15-5904R	13.3	15.1	16.4	.	17.0	15.1	15.3
S15-6037R	15.4	15.5	17.0	.	15.6	15.9	15.9
S15-7499R	13.4	13.6	14.8	.	16.8	15.0	14.6
S15-9779R	16.1	17.3	16.8	.	17.8	16.5	17.0
S15-10924C	15.7	17.4	18.4	.	17.1	16.5	17.0
S15-12003C	13.9	15.2	15.6	.	16.4	15.8	15.3
S15-17688C	15.2	15.3	17.2	.	15.8	16.8	16.0
S15-18319R	13.6	13.6	15.6	.	14.5	15.6	14.5
SA13-1464	14.2	14.7	17.4	.	16.3	15.1	15.4
SA14-5754	15.5	14.8	15.7	.	16.8	15.0	15.6
SA14-5854	13.9	14.8	16.5	.	15.0	14.8	15.0
TNLR-07	12.3	12.5	14.2	.	14.6	13.0	13.3
TNLR-12	13.0	13.1	14.3	.	14.8	13.4	13.7
V11-2263	13.7	14.3	15.1	.	15.0	14.3	14.5
V13-0116	11.7	13.9	13.5	.	13.4	13.7	13.3
Mean	14.2	14.5	15.8	.	15.4	15.0	15.0
LSD(0.05)	0.9	1.6	.	.	.	.	0.9
CV(%)	3.1	5.4	.	.	.	.	5.2

TABLE 33 - OIL (%)†
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	19.6	19.5	19.1	19.5	20.3	19.9	19.6
AG 4135	19.5	20.4	19.7	19.8	21.8	20.5	20.3
LD06-7620	19.3	19.7	17.8	18.5	22.7	18.8	19.5
AG 3934RR2	18.7	20.2	19.4	19.6	21.9	20.0	20.0
DS31-243	18.2	18.3	18.4	18.6	19.9	19.4	18.8
DS3H-211	18.9	20.7	19.7	19.3	21.7	21.4	20.3
LG11-8169-007F	19.2	19.2	17.9	19.3	20.4	19.0	19.2
LG11-8169-091F	19.4	20.0	18.6	19.4	21.3	19.5	19.7
S15-2702R	18.9	20.4	19.2	19.7	21.7	20.6	20.1
S15-5904R	19.1	20.4	18.8	18.9	16.9	19.6	18.9
S15-6037R	18.9	20.0	19.3	19.6	23.0	20.1	20.2
S15-7499R	17.9	20.2	19.5	20.1	20.5	20.1	19.7
S15-9779R	18.9	20.9	19.7	19.7	20.7	20.5	20.0
S15-10924C	19.3	21.1	19.6	19.0	22.3	18.4	20.0
S15-12003C	18.5	20.3	19.6	19.2	21.5	20.0	19.8
S15-17688C	18.0	19.6	18.4	20.3	22.1	19.1	19.6
S15-18319R	18.3	19.4	18.2	20.2	21.6	19.2	19.5
SA13-1464	19.9	21.2	19.0	20.6	24.0	20.6	20.9
SA14-5754	19.3	20.8	19.1	19.5	23.0	20.6	20.4
SA14-5854	19.1	21.1	19.4	20.2	23.9	20.8	20.7
TNLR-07	19.3	20.2	19.2	19.0	21.6	17.3	19.4
TNLR-12	20.0	20.8	19.3	19.0	22.4	20.9	20.4
V11-2263	19.3	19.8	19.2	18.3	21.2	20.2	19.7
V13-0116	19.2	19.2	18.5	20.1	19.7	19.5	19.4
Mean	19.0	20.1	19.0	19.5	21.5	19.8	19.8
LSD(0.05)	.	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	.	3.8

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

TABLE 34 - PROTEIN (%)†
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	34.3	34.8	35.2	33.3	32.6	32.9	33.9
AG 4135	35.0	34.4	35.1	34.1	34.5	33.2	34.4
LD06-7620	34.2	35.4	37.1	34.7	37.3	35.0	35.6
AG 3934RR2	35.2	33.8	34.5	34.1	35.0	33.0	34.3
DS31-243	35.1	33.7	35.7	36.4	35.0	34.3	35.0
DS3H-211	35.2	34.5	35.5	35.6	33.1	32.2	34.3
LG11-8169-007F	34.9	35.5	38.3	35.3	36.7	34.6	35.9
LG11-8169-091F	34.1	35.5	37.7	33.8	36.6	34.6	35.4
S15-2702R	33.9	34.2	35.8	34.9	36.4	33.0	34.7
S15-5904R	34.5	34.3	37.1	35.0	41.5	33.6	36.0
S15-6037R	35.7	35.6	36.1	35.4	35.1	33.4	35.2
S15-7499R	34.3	34.3	34.6	33.2	35.5	33.0	34.2
S15-9779R	33.4	34.0	35.2	34.7	36.2	32.8	34.4
S15-10924C	34.6	33.2	35.7	37.0	32.7	37.2	35.1
S15-12003C	37.3	35.8	35.4	37.2	33.2	33.7	35.4
S15-17688C	36.1	35.5	38.7	34.7	36.8	34.7	36.1
S15-18319R	34.8	35.8	36.0	36.1	35.3	34.3	35.4
SA13-1464	33.7	33.6	36.2	33.6	37.4	34.0	34.8
SA14-5754	33.6	34.5	35.6	36.4	34.9	32.6	34.6
SA14-5854	33.3	33.3	35.0	34.9	35.4	32.5	34.1
TNLR-07	33.6	34.3	35.0	34.8	32.4	31.9	33.7
TNLR-12	33.8	33.4	34.3	32.6	33.2	32.8	33.3
V11-2263	35.6	36.4	36.4	35.9	34.2	33.7	35.4
V13-0116	35.1	37.1	37.2	33.2	35.6	34.5	35.4
Mean	34.6	34.7	36.0	34.9	35.3	33.6	34.8
LSD(0.05)	.	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	.	3.4

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

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST IV-S-EARLY 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AG 4232RR2Y	11.0	3.7	22.0	56.0	7.3
AG 4135	11.0	4.3	23.0	54.0	6.7
LD06-7620	11.0	4.2	22.0	55.0	7.2
AG 3934RR2	12.0	3.8	20.0	57.0	7.2
S15-17688C	7.6	3.7	81.0	3.6	4.1
S15-18319R	7.3	3.2	80.0	5.0	4.3
TNLR-07	7.8	3.4	84.0	1.2	3.7
TNLR-12	8.0	3.7	83.0	1.0	3.9
Mean	9.5	3.8	52.0	29.0	5.6
LSD(0.05)	0.3	0.3	4.2	3.3	0.6
CV(%)	2.8	6.9	6.8	9.8	9.8

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	10.8	11.0	10.8	11.6	11.0	11.1	11.0
AG 4135	10.7	10.3	11.4	11.6	11.6	11.9	11.2
LD06-7620	11.3	10.7	11.3	11.6	11.3	12.2	11.4
AG 3934RR2	11.6	11.2	11.8	12.2	11.6	11.8	11.7
S15-17688C	7.7	7.1	7.6	7.8	7.5	7.9	7.6
S15-18319R	7.0	6.6	6.9	8.5	7.4	7.5	7.3
TNLR-07	7.5	7.3	7.4	8.2	7.9	8.1	7.8
TNLR-12	8.0	7.5	7.8	8.2	8.0	8.2	8.0
Mean	9.3	9.0	9.4	9.9	9.5	9.8	9.5
LSD(0.05)	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	2.8

SEED STEARIC ACID (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	4.4	3.6	3.8	3.5	3.2	3.5	3.7
AG 4135	5.9	4.1	4.1	4.0	4.1	3.8	4.3
LD06-7620	4.7	4.3	4.2	3.7	4.4	3.9	4.2
AG 3934RR2	4.7	3.6	3.5	3.5	3.7	4.0	3.8
S15-17688C	4.8	3.7	3.6	3.7	3.5	3.1	3.7
S15-18319R	4.4	3.1	2.9	3.1	2.7	2.8	3.2
TNLR-07	3.9	3.2	3.2	3.2	3.4	3.3	3.4
TNLR-12	4.0	3.7	3.5	3.5	3.5	3.8	3.7
Mean	4.6	3.7	3.6	3.5	3.6	3.5	3.8
LSD(0.05)	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	6.9

SEED OLEIC ACID (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	24.5	21.9	25.1	19.6	22.4	19.0	22.1
AG 4135	23.2	30.5	21.5	22.2	24.1	18.6	23.3
LD06-7620	22.7	23.8	24.0	22.8	23.2	16.8	22.2
AG 3934RR2	22.7	19.5	21.6	18.8	22.3	18.0	20.5
S15-17688C	75.9	81.9	81.0	81.3	83.6	81.7	80.9
S15-18319R	77.0	84.1	83.1	64.5	86.8	85.5	80.2
TNLR-07	81.5	84.2	83.6	84.2	85.4	84.5	83.9
TNLR-12	80.9	83.2	84.3	83.5	85.2	83.4	83.4
Mean	51.1	53.6	53.0	49.6	54.1	50.9	52.1
LSD(0.05)	.	.	.	.	.	.	4.2
CV(%)	.	.	.	.	.	.	6.8

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	53.0	56.3	53.8	57.1	56.7	58.6	55.9
AG 4135	52.6	49.5	56.3	55.1	54.6	58.3	54.4
LD06-7620	54.0	54.5	53.6	54.1	54.7	58.9	55.0
AG 3934RR2	53.7	58.4	56.2	57.5	56.7	57.8	56.7
S15-17688C	6.3	3.4	3.1	2.9	3.0	3.2	3.6
S15-18319R	6.1	2.7	3.0	17.6	0.4	0.5	5.0
TNLR-07	2.6	1.6	2.0	0.4	0.4	0.4	1.2
TNLR-12	2.4	1.8	0.4	0.5	0.5	0.5	1.0
Mean	28.9	28.5	28.6	30.6	28.4	29.8	29.1
LSD(0.05)	.	.	.	.	.	.	3.3
CV(%)	.	.	.	.	.	.	9.8

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG 4232RR2Y	7.3	7.2	6.5	8.2	6.7	7.8	7.3
AG 4135	7.7	5.6	6.8	7.1	5.7	7.4	6.7
LD06-7620	7.3	6.7	7.0	7.7	6.4	8.2	7.2
AG 3934RR2	7.3	7.3	6.9	8.0	5.6	8.4	7.2
S15-17688C	5.4	3.9	4.7	4.3	2.4	4.0	4.1
S15-18319R	5.5	3.5	4.1	6.4	2.7	3.8	4.3
TNLR-07	4.5	3.6	3.7	4.0	2.9	3.7	3.7
TNLR-12	4.6	3.8	4.0	4.4	2.8	4.0	3.9
Mean	6.2	5.2	5.5	6.3	4.4	5.9	5.6
LSD(0.05)	.	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	.	9.8

SUMMARY OF SEED SUGARS(%)
PRELIMINARY TEST IV-S-EARLY 2017

STRAIN/ VARIETY	Sucrose	Raffinose	Stachyose	Total Sugar
AG 4232RR2Y	2.9	1.1	2.9	6.9
AG 4135	3.6	1.5	4.2	9.2
LD06-7620	3.6	1.4	3.6	8.7
AG 3934RR2	3.9	1.4	3.9	9.2
V11-2263	3.2	1.6	4.1	8.9
Mean	3.5	1.4	3.7	8.6
LSD(0.05)	1.3	0.6	1.4	3.4
CV(%)	29.0	34.0	29.0	30.0

SEED SUCROSE(%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stuttgart, AR	Test Mean
AG 4232RR2Y	4.2	0.5	0.5	5.4	3.9	2.9
AG 4135	3.8	3.9	3.4	3.4	3.4	3.6
LD06-7620	3.8	2.8	3.6	4.3	3.6	3.6
AG 3934RR2	5.1	3.1	3.7	3.9	3.9	3.9
V11-2263	3.1	2.6	2.7	3.2	4.4	3.2
Mean	4.0	2.6	2.8	4.0	3.8	3.5
LSD(0.05)	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	29.2

†Sucrose percentage reported beginning in 2017.

SEED RAFFINOSE(%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stuttgart, AR	Test Mean
AG 4232RR2Y	1.9	0.2	0.1	1.7	1.7	1.1
AG 4135	1.3	2.0	1.6	0.9	1.5	1.5
LD06-7620	1.4	1.3	1.5	1.4	1.5	1.4
AG 3934RR2	1.8	1.1	1.4	1.1	1.5	1.4
V11-2263	1.6	1.8	1.7	1.5	1.4	1.6
Mean	1.6	1.3	1.3	1.3	1.5	1.4
LSD(0.05)	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	33.6

SEED STACHYOSE(%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stuttgart, AR	Test Mean
AG 4232RR2Y	4.4	0.4	0.3	5.0	4.4	2.9
AG 4135	4.0	4.9	4.3	3.5	4.2	4.2
LD06-7620	3.1	3.4	3.9	3.9	3.9	3.6
AG 3934RR2	4.0	3.4	3.9	3.9	4.2	3.9
V11-2263	4.3	4.3	4.0	4.0	4.0	4.1
Mean	4.0	3.3	3.3	4.0	4.1	3.7
LSD(0.05)	.	.	.	.	.	1.4
CV(%)	.	.	.	.	.	29.1

SEED TOTAL SUGARS (%)
PRELIMINARY GROUP IV-S-EARLY 2017

STRAIN/ VARIETY	Columbia, MO	Jackson, TN	Keiser, AR	Knoxville, TN	Stuttgart, AR	Test Mean
AG 4232RR2Y	10.5	1.1	0.9	12.1	10.0	6.9
AG 4135	9.2	10.8	9.3	7.8	9.1	9.2
LD06-7620	8.3	7.5	9.0	9.5	9.0	8.7
AG 3934RR2	10.9	7.5	9.0	8.9	9.6	9.2
V11-2263	8.9	8.7	8.4	8.7	9.8	8.9
Mean	9.6	7.1	7.3	9.4	9.5	8.6
LSD(0.05)	.	.	.	.	.	3.4
CV(%)	.	.	.	.	.	29.5

INTENTIONALLY BLANK

TABLE 35 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP IV-S-LATE 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	Ellis	5002T x 5601T	Commercial		Conv	
2	AG 4632RR2Y	Commercial check	Commercial		RR2	
3	AG 4835	Commercial check	Commercial		RR2	
4	DA1133-038F	DB06-3442 x N02-417	Gillen		Conv	
5	DA1134-015F	DB03-1381 x S05-11482	Gillen		Conv	
6	DA1137-007F	DB04-10836 x S05-11482	Gillen		Conv	
7	DA1137-026F	DB04-10836 x S05-11482	Gillen		Conv	
8	K15-1681	KS5004N / 435.TCS	Schapaugh	F5	Conv	STS
9	K15-1755	KS5004N / NCC06-339	Schapaugh	F5	Conv	
10	K15-1874	KS5004N / 435.TCS	Schapaugh	F5	Conv	
11	K15-1891	KS5004N / 435.TCS	Schapaugh	F5	Conv	STS
12	K15-1992	NCC05-1261 / LD00-3309	Schapaugh	F5	Conv	
13	LW13-4302	LD00-2817 x PI 567189A	Fallen		Conv	
14	R14-2090	S05-11482 x R03-984	Mozzoni	F5	Conv	
15	R14-2765	LS03-4294 x R05-3239	Mozzoni	F5	Conv	
16	R14-691	R03-984 x V03-4705	Mozzoni	F5	Conv	
17	R14-4187RY	R03-984 x (R03-263 x [R2Y14 (F2)])	Mozzoni	F5	RR2	
18	R14-14635	R09-1822 x R05-3239	Mozzoni	F4	Conv	
19	S15-3772R	S08-17361 x S11-9618RR	Chen		RR2	High Protein or Oil
20	S15-3847R	S05-11400 x S10-6401	Chen		RR2	
21	S15-4892R	S09-9943 x S11-5727RR	Chen		RR2	
22	S15-7174R	S08-17361 x S11-8794RR	Chen		RR1	
23	S15-8839R	S11-20356RR1 x S11-5727RR	Chen		RR1	
24	S15-10710C	S11-16789 x S11-17025	Chen		Conv	
25	S15-10743C	S11-16789 x S11-17025	Chen		Conv	High Protein
26	S15-17875R	S09-12096 x CR12-859TP	Chen		RR1	HO
27	TN14-5542R2	TN08-114/09-48343	Pantalone		RR2	
28	TN15-4009	TN09-016 x S05-11482	Pantalone		Conv	
29	TN15-4302	OSAGE x TN10-4409	Pantalone		Conv	Meal Protein ? 48%
30	TN15-4545	TN02-226 x MON RR2Y	Pantalone		RR2	
31	TN15-5007	OSAGE x TN10-4409	Pantalone		Conv	Meal Protein ? 48%
32	TN15-5015	TN09-016 x S05-11482	Pantalone		Conv	
33	TN16-619	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
34	V14-4140	(Glenn x R02-3369) x (V03-4660 x R02-3369)	Zhang	F4	Conv	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST IV-S-LATE 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 1	Race 3	Race 5	SC RATING	SC SCORE
Ellis	63.9	6	11	0	1.3	28	.	4	5	R	1
AG 4632RR2Y	66.0	1	10	-6	2.2	36	.	4	4	MR	2
AG 4835	63.0	10	13	-3	2.0	36	.	4	4	R	1
DA1133-038F	55.4	28	26	-4	2.8	29	.	4	5	R	1
DA1134-015F	64.1	5	10	4	2.5	32	.	4	4	R	1
DA1137-007F	54.5	29	26	2	2.1	31	.	5	4	R	1
DA1137-026F	50.5	32	28	-2	1.8	27	.	.	4	SS	3
K15-1681	63.1	9	15	-8	3.2	27	.	4	4	R	1
K15-1755	61.8	16	14	-6	3.1	32	.	1	3	R	1
K15-1874	64.2	4	11	-4	1.6	30	.	1	2	R	1
K15-1891	57.8	26	22	-6	1.2	28	.	3	4	R	1
K15-1992	56.3	27	24	-8	1.7	28	.	3	4	R	1
LW13-4302	43.9	34	33	-14	2.6	34	.	5	5	SS	3
R14-2090	60.0	21	18	-6	2.7	30	.	5	5	MS	4
R14-2765	62.6	12	13	-1	2.0	30	.	3	4	R	1
R14-691	61.9	15	15	-4	2.1	31	.	1	1	R	1
R14-4187RY	60.9	20	16	-1	2.4	32	.	3	5	S	5
R14-14635	61.2	19	16	-2	2.3	30	.	4	5	S	5
S15-3772R	63.7	8	11	0	2.5	35	.	3	4	S	5
S15-3847R	65.2	2	10	-3	2.4	38	.	3	4	R	1
S15-4892R	54.2	30	25	-3	3.1	36	.	2	5	S	5
S15-7174R	62.4	13	12	0	2.2	38	.	3	4	R	1
S15-8839R	62.2	14	15	0	2.2	34	.	1	1	SS	3
S15-10710C	50.6	31	30	-3	2.7	27	.	1	1	MS	4
S15-10743C	58.5	25	21	-6	2.7	28	.	2	.	S	5
S15-17875R	49.6	33	31	-11	2.2	38	.	2	4	R	1
TN14-5542R2	59.5	23	19	1	1.6	31	.	1	1	MS	4
TN15-4009	62.8	11	14	-1	2.3	30	.	2	1	S	5
TN15-4302	58.6	24	21	-4	3.1	31	.	4	4	MS	4
TN15-4545	59.7	22	18	-4	1.7	37	.	1	1	MS	4
TN15-5007	61.5	18	14	-3	1.6	30	.	4	3	R	1
TN15-5015	61.8	17	13	-2	1.5	30	.	2	2	S	5
TN16-619	63.8	7	11	0	2.0	32	.	5	5	R	1
V14-4140	64.3	3	11	3	2.5	31	.	4	4	S	5
Mean	59.7	.	.	-3	2.2	32	.	.	.		.
LSD(0.05)	5.5	.	.	3	.	3	.	.	.		.
CV(%)	11.1	.	.	89	.	12	.	.	.		.

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

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

TABLE 36 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST IV-S-LATE 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
Ellis	1.9	13.0	35.1	18.3	W	G	T
AG 4632RR2Y	2.7	14.9	33.0	19.7	P	G	Br
AG 4835	1.7	13.4	35.0	18.7	P	G	Br
DA1133-038F	2.0	15.5	33.7	20.0	W	G	T
DA1134-015F	2.0	13.8	34.5	19.2	P	T	T
DA1137-007F	1.9	13.7	34.3	19.2	W	T	T
DA1137-026F	1.9	11.6	34.6	18.8	P	T	T
K15-1681	1.9	14.1	35.6	19.6	P	G	Br
K15-1755	1.9	13.6	34.7	19.6	P	G	Br
K15-1874	2.0	13.2	34.8	19.6	W	G	Br
K15-1891	1.8	13.7	36.4	18.9	P	G	Br
K15-1992	2.0	11.6	35.1	19.2	P	G	Br
LW13-4302	2.3	14.3	36.8	17.3	W	G	T
R14-2090	1.8	12.9	35.5	18.4	P	G	T
R14-2765	2.3	15.3	34.6	18.9	S	T	T
R14-691	1.9	12.2	34.5	19.2	P	T	T
R14-4187RY	2.0	13.3	33.9	18.8	P	G	T
R14-14635	1.8	13.1	33.8	19.1	P	T	T
S15-3772R	2.3	15.2	34.2	20.3	P	G	Br
S15-3847R	2.0	14.1	34.4	19.1	W	G	Br
S15-4892R	2.4	13.2	33.7	19.7	W	T	Br
S15-7174R	2.1	17.6	34.7	19.3	W	T	T
S15-8839R	2.1	13.4	33.8	20.0	P	T	T
S15-10710C	2.2	14.3	35.9	19.2	W	G	T
S15-10743C	2.1	14.0	36.4	18.7	W	G	Br
S15-17875R	2.5	14.5	35.2	19.0	P	G	
TN14-5542R2	1.8	14.4	35.0	18.1	P	T	T
TN15-4009	2.2	13.4	32.8	19.7	W	T	T
TN15-4302	2.0	12.8	37.2	17.8	W	G	T
TN15-4545	2.0	12.5	33.0	19.1	P	Lt	T
TN15-5007	2.2	13.7	38.7	17.3	W	G	T
TN15-5015	2.0	14.8	34.8	19.5	S	T	T
TN16-619	1.8	11.3	34.8	18.5	W	G	T
V14-4140	2.0	14.0	34.6	19.5	W	T	T
Mean	2.0	13.7	34.9	19.0			
LSD(0.05)	0.4	1.0	0.8	0.4			
CV(%)	19.4	7.0	2.1	2.0			

TABLE 37 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	60.6	80.6	55.8	62.6	42.1	70.8	74.6	63.9
AG 4632RR2Y	57.1	73.9	77.9	60.8	41.5	75.5	75.1	66.0
AG 4835	59.8	74.3	63.5	65.9	42.2	64.2	71.0	63.0
DA1133-038F	48.2	72.8	50.7	51.5	33.7	65.0	65.7	55.4
DA1134-015F	57.3	78.5	65.7	68.2	45.2	61.9	72.0	64.1
DA1137-007F	55.3	66.7	48.9	47.5	43.7	61.2	58.1	54.5
DA1137-026F	44.9	56.5	43.8	42.5	42.4	68.4	55.0	50.5
K15-1681	64.0	70.5	71.8	60.7	39.9	70.2	64.9	63.1
K15-1755	59.5	73.7	58.1	58.5	47.2	68.0	67.8	61.8
K15-1874	53.3	76.8	64.6	71.0	40.4	72.7	70.3	64.2
K15-1891	55.4	64.5	56.8	55.9	37.9	67.9	66.0	57.8
K15-1992	48.9	63.8	57.2	56.4	35.7	65.0	67.4	56.3
LW13-4302	26.4	57.1	42.4	50.7	25.7	48.1	53.2	43.9
R14-2090	61.8	69.3	50.8	57.1	46.8	69.5	64.4	60.0
R14-2765	56.6	79.7	56.9	57.9	49.1	71.3	66.7	62.6
R14-691	54.5	68.9	55.9	63.9	47.7	69.2	73.4	61.9
R14-4187RY	49.5	71.3	61.8	57.4	44.8	74.7	66.6	60.9
R14-14635	47.3	73.5	60.0	59.9	49.7	71.1	67.1	61.2
S15-3772R	56.0	79.3	53.3	63.6	43.7	77.2	72.7	63.7
S15-3847R	67.8	78.8	57.5	63.7	41.9	72.1	74.4	65.2
S15-4892R	52.5	75.3	47.6	46.9	35.5	68.2	53.2	54.2
S15-7174R	52.8	75.5	59.0	64.6	44.3	72.1	68.1	62.4
S15-8839R	61.1	74.8	62.5	71.4	34.2	67.5	63.5	62.2
S15-10710C	44.3	62.3	47.5	56.2	37.3	55.8	50.8	50.6
S15-10743C	48.3	74.5	61.2	60.0	37.7	67.1	60.9	58.5
S15-17875R	34.2	61.3	54.3	50.2	30.2	54.2	59.9	49.6
TN14-5542R2	47.8	74.7	64.2	67.7	41.1	57.5	63.4	59.5
TN15-4009	51.8	76.9	67.0	69.1	41.2	61.2	70.6	62.8
TN15-4302	57.1	70.5	50.2	55.6	34.4	78.4	63.8	58.6
TN15-4545	39.3	69.0	59.5	72.1	45.5	67.1	65.3	59.7
TN15-5007	57.7	81.3	51.3	58.4	44.2	72.8	64.9	61.5
TN15-5015	58.1	75.0	60.4	62.6	48.4	57.9	70.1	61.8
TN16-619	57.7	79.1	57.8	61.0	40.6	75.1	75.1	63.8
V14-4140	49.7	85.6	66.2	56.9	50.2	64.9	76.5	64.3
Mean	52.8	72.5	57.7	59.6	41.4	67.2	66.3	59.7
LSD(0.05)	16.6	9.9	16.1	5.1	12.3	12.7	5.9	5.5
CV(%)	14.8	6.7	13.5	4.2	14.6	9.3	4.4	11.1

TABLE 38 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	9/27	.	9/27	10/8	10/10	9/19	9/25	9/30
AG 4632RR2Y	-3	.	-3	-11	-3	-12	-4	-6
AG 4835	0	.	-1	-7	0	-10	-1	-3
DA1133-038F	-2	.	-3	-9	-4	-4	-6	-4
DA1134-015F	4	.	8	4	3	-2	3	4
DA1137-007F	1	.	4	4	3	-2	1	2
DA1137-026F	-4	.	-1	-5	1	-3	0	-2
K15-1681	-6	.	-4	-17	-6	-10	-7	-8
K15-1755	-6	.	-3	-9	-5	-10	-7	-6
K15-1874	-2	.	-2	-7	-2	-9	-4	-4
K15-1891	-4	.	-2	-7	-5	-11	-6	-6
K15-1992	-6	.	-8	-11	-6	-11	-6	-8
LW13-4302	-22	.	-7	-15	-4	-27	-11	-14
R14-2090	-6	.	-1	-10	-5	-11	-7	-6
R14-2765	3	.	0	-5	-1	-4	0	-1
R14-691	-2	.	-1	-8	-5	-5	-3	-4
R14-4187RY	-2	.	4	-3	-2	-3	-1	-1
R14-14635	0	.	2	-7	-2	-3	0	-2
S15-3772R	1	.	5	-4	-2	-4	3	0
S15-3847R	0	.	2	-10	-2	-4	-4	-3
S15-4892R	-2	.	1	-8	-1	-10	0	-3
S15-7174R	3	.	4	-3	0	-5	3	0
S15-8839R	0	.	3	1	-1	-4	-2	0
S15-10710C	-4	.	-1	-1	-1	-12	-2	-3
S15-10743C	-6	.	-3	-8	-2	-12	-6	-6
S15-17875R	-17	.	-1	-14	-7	-20	-11	-11
TN14-5542R2	0	.	6	0	0	-2	1	1
TN15-4009	-6	.	5	-3	-2	-2	1	-1
TN15-4302	-6	.	-1	-5	-4	-4	-7	-4
TN15-4545	-2	.	-1	-9	0	-11	-2	-4
TN15-5007	-2	.	1	-7	-5	-4	-3	-3
TN15-5015	-2	.	0	-5	-2	-4	-3	-2
TN16-619	0	.	6	-2	1	-4	2	0
V14-4140	5	.	12	-1	-1	0	5	3
Mean	-3	.	1	-6	-2	-7	-2	-3
LSD(0.05)	4	.	4	4	2	2	2	3
CV(%)	70	.	295	38	62	13	48	89

TABLE 39 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	28	.	27	40	23	26	24	28
AG 4632RR2Y	35	.	40	44	28	34	35	36
AG 4835	39	.	41	45	25	33	36	36
DA1133-038F	29	.	27	41	24	30	24	29
DA1134-015F	31	.	35	43	31	27	26	32
DA1137-007F	34	.	29	44	27	28	27	31
DA1137-026F	30	.	27	41	21	23	21	27
K15-1681	26	.	30	35	25	26	24	27
K15-1755	30	.	32	46	32	30	25	32
K15-1874	28	.	36	38	25	29	25	30
K15-1891	27	.	33	35	25	24	23	28
K15-1992	28	.	27	40	26	23	24	28
LW13-4302	36	.	33	42	25	34	35	34
R14-2090	36	.	24	40	29	29	25	30
R14-2765	30	.	33	36	29	30	25	30
R14-691	30	.	31	38	29	32	26	31
R14-4187RY	34	.	29	43	27	32	29	32
R14-14635	30	.	33	40	27	27	27	30
S15-3772R	36	.	34	44	26	34	37	35
S15-3847R	45	.	39	46	25	37	36	38
S15-4892R	38	.	38	44	26	35	34	36
S15-7174R	36	.	44	46	28	39	37	38
S15-8839R	36	.	32	48	29	33	28	34
S15-10710C	31	.	23	41	23	23	23	27
S15-10743C	32	.	28	39	25	26	22	28
S15-17875R	33	.	47	45	28	36	38	38
TN14-5542R2	32	.	34	41	27	27	24	31
TN15-4009	30	.	33	42	27	26	25	30
TN15-4302	33	.	29	40	30	29	28	31
TN15-4545	33	.	38	48	29	38	37	37
TN15-5007	29	.	27	39	29	29	28	30
TN15-5015	33	.	26	39	30	28	27	30
TN16-619	34	.	30	46	25	31	26	32
V14-4140	29	.	31	43	30	25	29	31
Mean	32	.	32	42	27	30	28	32
LSD(0.05)	9	.	9	4	4	4	4	3
CV(%)	14	.	13	5	7	7	7	12

TABLE 40 - PLANT LODGING (1-5)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	1.5	.	1.0	1.5	1.0	2.0	1.0	1.3
AG 4632RR2Y	3.5	.	2.5	1.0	1.0	2.0	3.5	2.2
AG 4835	3.0	.	2.0	1.0	1.0	3.0	2.0	2.0
DA1133-038F	3.5	.	2.5	2.5	2.0	2.5	3.5	2.8
DA1134-015F	3.0	.	3.0	2.5	1.0	2.5	3.0	2.5
DA1137-007F	3.0	.	2.5	1.5	1.0	2.5	2.0	2.1
DA1137-026F	3.0	.	2.0	1.0	1.0	2.0	2.0	1.8
K15-1681	3.5	.	4.0	3.5	2.5	2.5	3.5	3.2
K15-1755	3.5	.	3.0	3.0	3.0	2.0	4.0	3.1
K15-1874	2.0	.	1.5	1.0	1.0	2.0	2.0	1.6
K15-1891	1.0	.	1.0	1.0	1.0	2.0	1.0	1.2
K15-1992	2.5	.	2.0	2.0	1.0	2.0	1.0	1.7
LW13-4302	4.0	.	2.0	1.5	1.0	3.0	4.0	2.6
R14-2090	3.5	.	3.0	2.0	2.0	2.5	3.0	2.7
R14-2765	3.0	.	2.5	1.0	1.0	2.0	2.5	2.0
R14-691	3.0	.	1.5	2.0	2.0	2.0	2.0	2.1
R14-4187RY	3.5	.	2.0	2.5	1.5	2.0	3.0	2.4
R14-14635	2.5	.	2.5	2.5	1.5	2.0	3.0	2.3
S15-3772R	4.0	.	3.0	1.0	1.0	3.0	3.0	2.5
S15-3847R	3.5	.	2.5	1.0	1.0	3.0	3.5	2.4
S15-4892R	4.0	.	4.0	2.0	1.5	3.0	4.0	3.1
S15-7174R	3.0	.	3.0	1.5	1.0	3.0	2.0	2.2
S15-8839R	3.0	.	2.5	1.5	1.0	2.5	2.5	2.2
S15-10710C	3.5	.	2.5	3.5	2.0	2.5	2.5	2.7
S15-10743C	3.0	.	2.5	3.5	1.5	2.5	3.0	2.7
S15-17875R	2.0	.	3.5	2.0	1.0	2.5	2.0	2.2
TN14-5542R2	2.0	.	2.0	1.0	1.0	2.0	1.5	1.6
TN15-4009	2.5	.	3.0	2.0	2.0	2.0	2.5	2.3
TN15-4302	4.0	.	3.5	3.0	3.5	2.5	2.0	3.1
TN15-4545	1.5	.	2.0	1.0	1.0	3.0	2.0	1.7
TN15-5007	2.0	.	1.5	1.0	1.0	2.0	2.0	1.6
TN15-5015	2.5	.	1.0	1.0	1.0	2.0	1.5	1.5
TN16-619	2.0	.	2.5	2.0	1.5	2.0	2.0	2.0
V14-4140	2.5	.	2.0	3.0	2.5	2.0	3.0	2.5
Mean	2.9	.	2.4	1.9	1.4	2.4	2.5	2.2
LSD(0.05)	1.3	.	1.4	1.1	0.7	0.7	1.3	0.6
CV(%)	22.3	.	28.3	29.3	23.4	14.9	24.7	30.4

TABLE 41 - SEED QUALITY (1-5)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	2.0	2.0	.	3.0	1.0	2.0	1.5	1.9
AG 4632RR2Y	3.0	2.5	.	3.0	2.5	3.0	2.0	2.7
AG 4835	2.0	1.5	.	2.0	1.0	2.0	1.5	1.7
DA1133-038F	2.0	2.0	.	3.0	1.5	2.0	2.0	2.0
DA1134-015F	2.0	2.0	.	3.0	1.5	2.0	1.5	2.0
DA1137-007F	2.0	1.5	.	3.0	1.5	2.0	1.5	1.9
DA1137-026F	2.0	2.0	.	3.0	1.0	2.0	1.5	1.9
K15-1681	2.0	1.5	.	3.0	1.5	2.0	1.5	1.9
K15-1755	2.0	1.5	.	3.0	1.0	2.0	2.0	1.9
K15-1874	2.0	1.5	.	3.0	2.0	2.0	1.5	2.0
K15-1891	2.0	1.5	.	3.0	1.0	2.0	1.5	1.8
K15-1992	2.5	1.5	.	3.0	1.5	2.0	1.5	2.0
LW13-4302	2.5	2.0	.	3.0	2.0	2.0	2.0	2.3
R14-2090	2.0	1.5	.	3.0	1.0	2.0	1.5	1.8
R14-2765	3.0	2.0	.	3.0	1.5	2.0	2.0	2.3
R14-691	2.0	1.5	.	3.0	1.5	2.0	1.5	1.9
R14-4187RY	2.0	1.5	.	3.0	1.5	2.0	2.5	2.0
R14-14635	2.0	1.5	.	2.0	1.0	3.0	1.5	1.8
S15-3772R	2.0	1.5	.	3.0	2.0	3.0	2.5	2.3
S15-3847R	2.0	1.5	.	3.0	1.5	2.0	2.0	2.0
S15-4892R	3.0	1.5	.	3.0	1.5	2.0	3.0	2.4
S15-7174R	2.0	1.5	.	3.0	2.0	2.0	2.0	2.1
S15-8839R	2.5	1.5	.	3.0	1.5	2.0	2.0	2.1
S15-10710C	2.5	1.5	.	3.0	2.0	2.0	1.5	2.2
S15-10743C	2.5	1.5	.	3.0	1.5	2.0	2.0	2.1
S15-17875R	3.0	2.0	.	3.0	2.0	3.0	2.0	2.5
TN14-5542R2	2.0	1.5	.	3.0	1.0	2.0	1.5	1.8
TN15-4009	3.0	1.5	.	3.0	1.5	2.0	2.5	2.2
TN15-4302	2.0	2.0	.	2.0	2.0	2.0	2.0	2.0
TN15-4545	3.0	1.5	.	3.0	1.0	2.0	1.5	2.0
TN15-5007	2.0	2.0	.	3.0	2.0	2.0	2.0	2.2
TN15-5015	2.5	1.5	.	2.0	1.5	2.0	2.0	2.0
TN16-619	2.0	1.5	.	3.0	1.0	2.0	1.5	1.8
V14-4140	2.0	2.0	.	3.0	1.5	2.0	1.5	2.0
Mean	2.3	1.7	.	2.9	1.5	2.1	1.8	2.0
LSD(0.05)	0.6	.	.	.	1.2	.	.	0.4
CV(%)	13.3	.	.	.	39.6	.	.	19.4

TABLE 42 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	*Jackson, TN*	*Keiser, AR*	*Knoxville, TN*	*Pittsburg, KS*	*Portageville, MO(B)*	*Stoneville, MS*	*Stuttgart, AR*	*Test Mean*
Ellis	13.1	13.3	.	12.1	12.6	13.6	13.2	13.0
AG 4632RR2Y	14.4	15.6	.	14.5	16.3	14.6	13.9	14.9
AG 4835	13.3	14.6	.	13.6	15.0	11.9	11.5	13.4
DA1133-038F	16.7	16.7	.	13.7	13.4	16.3	16.4	15.5
DA1134-015F	14.0	13.5	.	13.4	14.2	13.7	13.9	13.8
DA1137-007F	13.8	14.1	.	13.2	14.1	13.2	13.3	13.7
DA1137-026F	10.7	13.1	.	10.8	12.0	11.2	11.9	11.6
K15-1681	13.8	13.7	.	12.3	15.9	14.7	13.4	14.1
K15-1755	11.6	13.8	.	12.5	14.4	16.6	13.4	13.6
K15-1874	13.0	13.6	.	12.8	13.4	14.3	12.0	13.2
K15-1891	14.5	14.1	.	12.4	13.4	13.3	14.4	13.7
K15-1992	11.0	11.7	.	11.4	11.5	11.9	12.5	11.6
LW13-4302	12.2	13.9	.	14.2	18.1	13.8	13.1	14.3
R14-2090	12.5	13.5	.	12.3	14.2	12.5	12.0	12.9
R14-2765	15.1	16.5	.	15.2	15.1	15.1	15.2	15.3
R14-691	11.6	13.7	.	12.0	11.5	13.4	11.8	12.2
R14-4187RY	12.4	14.3	.	12.5	14.1	13.6	12.9	13.3
R14-14635	11.8	13.9	.	12.4	14.5	13.3	12.9	13.1
S15-3772R	15.4	15.1	.	14.4	15.7	15.2	15.5	15.2
S15-3847R	14.0	14.8	.	13.7	15.9	13.4	12.6	14.1
S15-4892R	12.1	14.9	.	13.1	13.7	13.9	11.8	13.2
S15-7174R	18.1	18.3	.	17.6	19.0	16.0	16.0	17.6
S15-8839R	12.8	14.2	.	13.9	13.3	13.7	13.1	13.4
S15-10710C	13.2	14.9	.	15.2	14.8	13.1	14.6	14.3
S15-10743C	13.8	14.5	.	14.0	14.8	13.0	14.1	14.0
S15-17875R	13.3	15.2	.	13.5	16.0	13.5	15.6	14.5
TN14-5542R2	13.7	15.3	.	14.6	13.8	14.3	14.8	14.4
TN15-4009	12.2	13.7	.	13.5	13.7	13.2	14.1	13.4
TN15-4302	12.1	13.1	.	12.7	13.5	11.8	13.3	12.8
TN15-4545	12.4	12.8	.	12.5	13.1	11.4	12.7	12.5
TN15-5007	13.0	14.1	.	12.9	15.0	12.6	14.4	13.7
TN15-5015	13.8	14.7	.	13.8	14.5	16.2	16.3	14.8
TN16-619	11.2	11.2	.	10.3	11.4	11.9	11.6	11.3
V14-4140	13.0	15.7	.	12.0	14.4	14.3	14.8	14.0
Mean	13.2	14.3	.	13.2	14.3	13.7	13.6	13.7
LSD(0.05)	1.5	.	.	.	1.5	.	.	1.0
CV(%)	5.5	.	.	.	5.2	.	.	7.0

TABLE 43 - OIL (%)†
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	18.9	17.6	18.3	17.9		18.5	18.8	18.3
AG 4632RR2Y	20.8	18.5	19.8	19.3	19.0	20.4	20.0	19.7
AG 4835	19.6	17.7	19.3	18.5	19.2	17.9	18.9	18.7
DA1133-038F	20.7	19.4		19.8	19.6	20.5	20.1	20.0
DA1134-015F	19.7	18.5	18.9	18.8	19.5	19.4	19.5	19.2
DA1137-007F	19.6	18.6	18.8	18.8	19.5	19.4	19.6	19.2
DA1137-026F	19.1	17.9	18.1	18.8	19.4	19.4	19.1	18.8
K15-1681	19.8	18.8	20.0	19.8	19.3	19.9	19.9	19.6
K15-1755	20.2	19.0	19.2	19.4	19.5	20.1	19.9	19.6
K15-1874	20.4	18.8	19.7	19.6	19.8	19.3	19.4	19.6
K15-1891	19.7	17.8	18.6	18.6	19.3	19.7	18.7	18.9
K15-1992	19.7	18.2	19.0	19.4	19.7	19.3	19.2	19.2
LW13-4302	18.3	15.7	17.1	17.9	17.1	17.7	17.5	17.3
R14-2090	19.3	18.1	18.1	17.2	18.4	19.2	18.7	18.4
R14-2765	20.1	18.2	18.7	18.4	18.9	18.9	19.1	18.9
R14-691	20.1	18.7	19.0	18.8	19.1	19.0	19.5	19.2
R14-4187RY	19.0	18.4	19.0	18.6	19.2	18.9	18.7	18.8
R14-14635	20.1	18.5	18.8	18.4	19.1	19.5	19.7	19.1
S15-3772R	20.9	19.2	20.8	19.9	19.8	20.9	20.8	20.3
S15-3847R	19.3	18.5	18.6	18.7	19.3	19.9	19.6	19.1
S15-4892R	20.1	19.1	19.0	19.3	19.8	20.3	20.1	19.7
S15-7174R	20.1	18.4	19.3	18.4	19.7	19.4	19.8	19.3
S15-8839R	20.5	19.4	19.6	19.6	20.2	20.3	20.8	20.0
S15-10710C	20.0	18.0	18.6	19.2	19.3	19.9	19.8	19.2
S15-10743C	19.9	17.4	18.4	17.9	18.4	19.5	19.2	18.7
S15-17875R	19.8	18.4	19.1	17.8	18.4	20.2	19.5	19.0
TN14-5542R2	19.2	17.5	17.3	18.4	18.1	18.3	18.2	18.1
TN15-4009	20.2	19.4	19.3	19.1	19.6	20.5	20.0	19.7
TN15-4302	18.2	17.4	18.1	17.8	17.8	17.3	18.0	17.8
TN15-4545	19.8	18.7	19.2	19.0	19.4	18.3	19.4	19.1
TN15-5007	18.3	16.4	17.4	17.7	17.3	17.2	17.0	17.3
TN15-5015	20.6	18.5	19.1	19.1	19.8	20.2	19.4	19.5
TN16-619	19.0	17.9	18.3	17.8	18.4	19.1	19.2	18.5
V14-4140	20.2	19.3	18.8	19.2	19.8	19.2	20.0	19.5
Mean	19.7	18.3	18.8	18.7	19.1	19.3	19.3	19.0
LSD(0.05)	.	.	.	.	.	.	.	0.4
CV(%)	.	.	.	.	.	.	.	2.0

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

TABLE 44 - PROTEIN (%)†
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	35.2	35.5	35.7	35.3		35.1	34.6	35.1
AG 4632RR2Y	31.9	32.8	32.9	34.0	34.0	33.0	32.7	33.0
AG 4835	34.9	36.5	34.7	35.4	33.1	36.2	34.1	35.0
DA1133-038F	33.3	34.8		33.3	32.9	33.9	33.9	33.7
DA1134-015F	34.3	34.9	35.3	35.3	33.7	34.2	33.8	34.5
DA1137-007F	34.9	35.3	34.0	34.3	34.2	34.6	33.1	34.3
DA1137-026F	34.4	35.5	35.0	34.5	34.0	34.5	34.2	34.6
K15-1681	36.3	36.3	35.4	35.5	35.5	35.9	34.2	35.6
K15-1755	34.8	35.3	35.3	34.8	34.8	34.0	34.1	34.7
K15-1874	34.5	35.4	34.6	34.7	34.3	34.7	35.1	34.8
K15-1891	37.1	38.1	37.1	36.2	35.4	34.3	37.0	36.4
K15-1992	35.8	36.2	35.3	34.4	34.0	34.7	35.3	35.1
LW13-4302	35.8	39.2	36.9	35.8	36.4	37.4	36.2	36.8
R14-2090	35.1	35.6	36.7	36.5	34.4	34.6	35.5	35.5
R14-2765	33.6	34.7	35.0	35.4	34.5	34.8	34.1	34.6
R14-691	33.9	35.0	35.4	34.6	33.5	35.3	33.6	34.5
R14-4187RY	34.4	34.6	33.6	34.3	31.5	34.7	34.1	33.9
R14-14635	33.1	34.9	34.1	34.6	32.3	34.1	33.7	33.8
S15-3772R	33.6	37.1	32.3	34.3	34.7	34.4	32.6	34.2
S15-3847R	34.4	34.5	35.0	35.1	34.1	34.8	32.6	34.4
S15-4892R	33.4	34.5	34.9	34.0	33.1	34.0	32.0	33.7
S15-7174R	34.1	37.1	34.9	35.1	34.3	34.9	32.9	34.7
S15-8839R	34.2	34.4	34.2	33.8	33.3	33.5	32.8	33.8
S15-10710C	34.8	37.3	37.6	35.5	35.1	35.8	35.1	35.9
S15-10743C	34.9	37.3	37.2	36.9	35.9	36.6	36.2	36.4
S15-17875R	33.3	37.9	35.4	35.7	35.4	35.7	33.0	35.2
TN14-5542R2	34.1	35.7	36.0	34.1	34.8	35.2	34.9	35.0
TN15-4009	32.7	33.0	33.2	33.1	32.2	32.5	33.0	32.8
TN15-4302	37.3	37.3	37.5	37.2	36.1	38.3	36.9	37.2
TN15-4545	32.7	32.6	33.0	33.0	32.4	34.6	32.8	33.0
TN15-5007	38.3	40.5	38.3	37.2	38.1	39.3	39.5	38.7
TN15-5015	33.9	35.5	34.5	34.4	33.8	36.4	35.3	34.8
TN16-619	35.4	35.2	34.8	35.2	34.7	34.6	33.9	34.8
V14-4140	34.6	34.1	35.1	34.6	33.9	35.6	34.2	34.6
Mean	34.6	35.7	35.2	34.9	34.2	35.1	34.3	34.9
LSD(0.05)	.	.	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	.	.	2.1

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

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST IV-S-LATE 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
Ellis	11.0	3.8	19.0	58.0	8.1
AG 4632RR2Y	11.0	4.1	22.0	56.0	7.6
AG 4835	11.0	4.5	18.0	57.0	8.6
S15-17875R	7.8	3.4	80.0	5.7	3.3
Mean	10.0	3.9	35.0	44.0	6.9
LSD(0.05)	0.3	0.2	2.5	2.1	0.7
CV(%)	2.3	4.5	6.5	4.2	9.2

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	10.5	11.2	11.5	11.4	11.1	11.1	11.2	11.1
AG 4632RR2Y	10.2	10.8	10.8	10.7	10.7	10.2	10.9	10.6
AG 4835	11.3	11.7	11.3	11.0	11.9	11.0	11.5	11.4
S15-17875R	7.2	7.9	8.2	7.8	8.4	7.5	7.8	7.8
Mean	9.8	10.4	10.4	10.2	10.5	10.0	10.4	10.2
LSD(0.05)	.	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	.	2.3

SEED STEARIC ACID (%)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	4.0	3.6	3.6	4.6	3.8	3.8	3.4	3.8
AG 4632RR2Y	3.9	4.0	3.7	5.0	4.3	3.7	3.9	4.1
AG 4835	4.4	4.7	4.0	5.4	4.4	4.4	4.3	4.5
S15-17875R	3.6	3.4	3.1	4.2	3.4	2.9	2.9	3.4
Mean	4.0	3.9	3.6	4.8	4.0	3.7	3.6	3.9
LSD(0.05)	.	.	.	.	.	.	.	0.2
CV(%)	.	.	.	.	.	.	.	4.5

SEED OLEIC ACID (%)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	19.2	18.3	16.9	21.0	19.8	21.9	18.3	19.4
AG 4632RR2Y	22.4	20.6	19.8	24.7	22.0	23.4	21.5	22.1
AG 4835	17.4	19.2	18.7	21.9	17.6	14.6	18.0	18.2
S15-17875R	81.5	81.3	78.8	75.3	76.2	83.9	81.9	79.8
Mean	35.1	34.8	33.6	35.7	33.9	36.0	34.9	34.9
LSD(0.05)	.	.	.	.	.	.	.	2.5
CV(%)	.	.	.	.	.	.	.	6.5

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	58.6	58.3	58.9	54.6	57.0	57.2	58.5	57.6
AG 4632RR2Y	56.7	56.9	57.2	51.8	55.2	56.1	55.8	55.7
AG 4835	58.8	55.7	57.6	53.5	57.5	61.3	57.2	57.4
S15-17875R	5.3	4.3	6.7	8.1	7.2	3.4	4.5	5.7
Mean	44.8	43.8	45.1	42.0	44.2	44.5	44.0	44.1
LSD(0.05)	.	.	.	.	.	.	.	2.1
CV(%)	.	.	.	.	.	.	.	4.2

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP IV-S-LATE 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS	Stuttgart, AR	Test Mean
Ellis	7.6	8.7	9.0	8.5	8.3	6.1	8.5	8.1
AG 4632RR2Y	6.9	7.7	8.4	7.7	7.8	6.6	7.9	7.6
AG 4835	8.2	8.7	8.4	8.3	8.6	8.7	9.0	8.6
S15-17875R	2.4	3.0	3.2	4.6	4.8	2.3	2.9	3.3
Mean	6.3	7.0	7.3	7.2	7.4	5.9	7.1	6.9
LSD(0.05)	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	9.2

INTENTIONALLY BLANK

TABLE 45 - PARENTAGE OF ENTRIES
UNIFORM GROUP V 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	Ellis	5002T x 5601T	Commercial		Conv	
2	JTN-5203	R93-171 x Anand	Arelli	F17	Conv	SCN, FLS
3	AG 5335	Commercial check	Commercial		RR2	
4	GoSoy 54G16	Commercial check	Pantalone		RR1	
5	UA 5612	Commercial check	Commercial		Conv	
6	TN11-5140	Hutcheson x TN89-39	Pantalone		Conv	High Protein
7	DA09x39-26F	R01-976 x DB00-087	Gillen	F5	Conv	
8	K14-1686	S05-11482 / DS-880	Schapaugh	F5	Conv	
9	K14-1726	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
10	R10-298	5601T x Ozark	Mozzoni	F5	Conv	
11	R13-4638RY	TN05-5018 x (R03-1232 x [R2Y12 (F2)])	Mozzoni	F5	RR2	
12	R13-9687	R05-5366 x Osage	Mozzoni	F5	Conv	
13	R13-13997	S07-2680 x R08-409	Mozzoni	F4	Conv	
14	R13-14635RR	LEO 2939-04S809 x R04-572	Mozzoni	F4	RR1	
15	S13-1955C	LD07-3419 x S05-11482	Chen		Conv	
16	S14-9017R	LD07-3419 x S08-9727RR1	Chen		RR1	High Protein or Oil
17	S15-10434C	S11-17025 x S11-14954	Chen		Conv	
18	S15-16499C	R09-4010 x V08-1924	Chen		Conv	
19	S15-16505C	R09-4010 x V08-1924	Chen		Conv	
20	S15-16569C	R09-4010 x V08-1924	Chen		Conv	
21	TN11-5102	Hutcheson x TN89-39	Pantalone		Conv	Meal Protein ? 48%
22	TN13-5531RR1	TN01-294RR x LG98-1445	Pantalone		RR1	12.5 % exotic
23	TN15-5008	Osage x TN10-4409	Pantalone		Conv	Meal Protein ? 48%
24	TN16-521	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
25	TN16-645	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
26	V10-0262	R02-2363 x V98-2711	Zhang	F4	Conv	
27	V11-3485	V98-2711 x Schillinger 495	Zhang	F4	RR1	
28	V12-0045R2	Teejay x (Ag5501(3) x GM_A19788)	Zhang	F4	RR2	
29	V12-1416	Allen x LG05-2887	Zhang	F4	RR1	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 46 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST V 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
Ellis	15	15	61.7	61.0	60.6	34.6	34.9	35.0	18.5	18.9	18.8
JTN-5203	25	18	58.6	58.1	56.8	34.9	35.1	35.2	19.2	19.4	19.2
AG 5335	13	14	62.0	60.9	59.0	34.6	35.3	35.5	19.5	19.7	19.5
GoSoy 54G16	27	20	58.2	.	.	32.9	.	.	19.5	.	.
UA 5612	10	14	62.6	62.1	60.3	34.7	35.2	35.2	18.9	19.1	19.0
TN11-5140	8	12	62.8	.	.	35.4	.	.	19.3	.	.
DA09x39-26F	14	15	61.7	59.5	.	34.6	35.0	.	19.0	19.2	.
K14-1686	7	12	63.2	.	.	34.7	.	.	19.3	.	.
K14-1726	19	17	60.9	.	.	36.1	.	.	18.4	.	.
R10-298	24	19	58.6	.	.	35.4	.	.	18.4	.	.
R13-4638RY	1	9	65.1	.	.	34.9	.	.	18.7	.	.
R13-9687	9	13	62.7	61.2	.	35.7	35.9	.	17.9	18.3	.
R13-13997	2	10	64.6	64.1	.	34.6	35.1	.	19.7	19.8	.
R13-14635RR	21	17	60.2	.	.	34.8	.	.	18.8	.	.
S13-1955C	6	12	63.5	.	.	33.9	.	.	19.4	.	.
S14-9017R	4	11	64.1	.	.	31.9	.	.	21.4	.	.
S15-10434C	3	10	64.6	.	.	35.6	.	.	18.5	.	.
S15-16499C	20	17	60.3	.	.	32.2	.	.	19.3	.	.
S15-16505C	23	18	59.2	.	.	33.7	.	.	19.2	.	.
S15-16569C	16	15	61.3	.	.	34.1	.	.	19.7	.	.
TN11-5102	5	10	63.7	61.6	60.4	36.6	36.7	36.7	18.3	18.6	18.6
TN13-5531RR1	29	22	56.2	.	.	32.6	.	.	19.5	.	.
TN15-5008	22	16	59.9	.	.	37.0	.	.	18.3	.	.
TN16-521	17	15	61.3	.	.	34.3	.	.	18.7	.	.
TN16-645	18	15	61.0	.	.	34.6	.	.	18.5	.	.
V10-0262	11	13	62.4	60.3	59.7	36.4	36.8	36.8	18.8	19.0	18.9
V11-3485	26	20	58.3	56.2	.	35.4	35.8	.	18.6	18.8	.
V12-0045R2	12	14	62.0	.	.	34.5	.	.	18.4	.	.
V12-1416	28	21	57.9	.	.	33.6	.	.	19.3	.	.
Mean	.	.	61.3	.	.	34.6	.	.	19.0	.	.
LSD(0.05)	.	.	3.9	.	.	0.7	.	.	0.5	.	.
CV(%)	.	.	11.3	.	.	2.5	.	.	3.2	.	.

† Data not included in mean: 2017 - Tallassee, AL
2016 - Kinston, VA; Knoxville, TN; Warsau, VA
2015 - Orange, VA; Springfield, TN; Bossier City, LA

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

TABLE 47 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST V 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
Ellis	0	1.3	27	1.6	13.5	W	G	T
JTN-5203	0	1.6	28	1.7	13.4	W	G	T
AG 5335	1	1.7	37	1.9	15.7	W	G	T
GoSoy 54G16	2	1.6	32	1.7	14.7	W	G	T
UA 5612	5	2.4	34	2.0	13.7	P	G	T
TN11-5140	8	1.8	35	1.8	14.8	W	G	T
DA09x39-26F	1	1.8	31	1.8	14.2	P	S	T
K14-1686	0	1.5	29	1.9	13.8	W	T	T
K14-1726	-3	1.4	29	1.7	13.9	S	G	T
R10-298	0	1.9	30	1.8	15.1	W	G	T
R13-4638RY	5	1.7	33	1.9	14.8	W	G	T
R13-9687	2	1.6	29	1.7	14.3	P	G	T
R13-13997	4	1.8	33	1.8	15.9	W	T	T
R13-14635RR	3	2.0	42	2.1	14.4	S	G	T
S13-1955C	4	2.1	30	2.2	14.3	W	T	T
S14-9017R	2	1.4	32	2.4	15.0	W	Lt	T
S15-10434C	4	2.2	30	1.9	13.6	P	T	T
S15-16499C	2	2.8	32	2.0	15.2	W	G	T
S15-16505C	6	3.3	36	2.0	16.0	W	G	T
S15-16569C	1	1.6	28	1.9	17.1	W	T	T
TN11-5102	2	1.5	32	1.7	14.6	W	G	T
TN13-5531RR1	1	1.5	30	1.7	15.0	W	G	T
TN15-5008	1	1.7	31	1.8	14.7	P	G	T
TN16-521	1	1.6	30	1.8	12.3	W	G	T
TN16-645	0	1.4	28	1.7	12.1	W	G	Br
V10-0262	3	1.7	32	1.7	15.1	W	T	T
V11-3485	3	1.9	29	1.8	15.1	P	T	T
V12-0045R2	1	1.5	29	2.0	17.4	P	G	T
V12-1416	4	1.3	29	1.8	14.0	W	G	T
Mean	2	1.8	31	1.9	14.6			
LSD(0.05)	2	0.3	2	0.2	0.6			
CV(%)	126	29.0	10	21.0	6.0			

TABLE 48 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST V 2017

STRAIN/	*SCN Cyst Score (1-5 Scale)†*			*PRK*	*SRK*	*SC*	*SC*
VARIETY	*Race 1*	*Race 3*	*Race 5*	*GA*	*GA*	*RATING*	*SCORE*
Ellis	.	4	5	1.5	1.0	R	1.0
JTN-5203	.	1	1	4.3	5.0	SS	3.0
AG 5335	.	3	4	1.0	4.7	R	1.0
GoSoy 54G16	.	1	2	1.0	3.0	S	5.0
UA 5612	.	3	5	1.7	5.0	SS	3.0
TN11-5140	.	4	5	3.0	1.0	R	1.0
DA09x39-26F	.	4	5	3.4	4.5	MS	4.0
K14-1686	.	1	1	2.3	5.0	MS	4.0
K14-1726	.	1	1	1.5	5.0	R	1.0
R10-298	.	4	5	2.1	1.4	R	1.0
R13-4638RY	.	3	5	2.0	1.0	R	1.0
R13-9687	.	3	4	1.3	5.0	R	1.0
R13-13997	.	3	3	2.8	1.0	R	1.0
R13-14635RR	.	4	5	2.1	4.8	R	1.0
S13-1955C	.	3	1	2.5	1.0	SS	3.0
S14-9017R	.	1	2	2.0	5.0	R	1.0
S15-10434C	.	2	1	1.8	1.1	SS	3.0
S15-16499C	.	4	4	1.3	5.0	S	5.0
S15-16505C	.	4	4	2.8	5.0	S	5.0
S15-16569C	.	4	3	3.0	4.8	MS	4.0
TN11-5102	.	4	4	2.0	1.0	R	1.0
TN13-5531RR1	.	1	1	3.5	5.0	MS	4.0
TN15-5008	.	4	3	2.0	5.0	MS	4.0
TN16-521	.	4	5	2.0	1.0	R	1.0
TN16-645	.	4	5	1.3	1.0	R	1.0
V10-0262	.	4	5	1.0	5.0	R	1.0
V11-3485	.	3	5	2.0	4.5	R	1.0
V12-0045R2	.	2	5	1.0	5.0	R	1.0
V12-1416	.	3	4	4.3	5.0	SS	3.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 49 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	64.4	52.8	85.2	59.4	66.9	57.0	57.1
JTN-5203	59.8	51.7	75.2	66.2	63.3	60.3	55.1
AG 5335	64.7	66.6	72.2	68.7	65.5	61.7	58.3
GoSoy 54G16	67.3	53.8	66.6	62.7	59.9	59.3	52.3
UA 5612	62.7	73.6	76.3	66.3	56.5	49.6	57.2
TN11-5140	65.5	69.5	72.5	72.9	65.5	44.7	54.0
DA09x39-26F	59.2	69.8	76.3	66.2	55.9	53.2	50.8
K14-1686	66.4	58.7	75.8	71.2	65.1	67.8	60.2
K14-1726	60.3	62.0	75.0	65.8	63.3	60.3	58.3
R10-298	58.5	47.0	71.0	70.1	58.4	50.3	60.5
R13-4638RY	62.1	68.0	79.5	70.2	70.8	48.1	59.3
R13-9687	65.7	73.8	75.0	68.1	61.0	45.8	47.3
R13-13997	65.0	69.5	81.9	72.4	59.0	50.5	60.7
R13-14635RR	62.0	66.8	73.6	67.2	62.9	50.5	53.6
S13-1955C	73.9	66.7	82.9	67.9	62.9	65.5	47.4
S14-9017R	68.9	56.4	79.9	65.1	72.6	58.5	61.5
S15-10434C	69.4	67.3	75.9	71.5	71.6	60.5	54.6
S15-16499C	55.3	70.3	76.7	75.0	53.4	45.7	53.7
S15-16505C	54.7	63.1	77.1	65.5	53.4	47.1	58.1
S15-16569C	67.8	61.2	79.6	69.3	62.8	58.2	53.8
TN11-5102	67.4	64.7	76.6	70.7	69.7	53.3	54.8
TN13-5531RR1	67.5	53.2	70.5	55.9	58.3	61.4	52.5
TN15-5008	63.5	62.4	65.3	70.5	57.6	50.6	58.6
TN16-521	58.8	66.6	85.1	67.4	65.9	44.9	42.8
TN16-645	67.5	55.9	77.8	61.3	68.4	44.5	54.5
V10-0262	59.0	64.0	72.6	69.8	65.7	50.9	58.1
V11-3485	59.3	61.7	67.4	67.6	61.1	42.3	54.9
V12-0045R2	60.8	58.8	70.2	70.6	62.8	55.8	57.8
V12-1416	59.3	59.8	66.2	63.6	61.3	50.1	50.2
Mean	63.3	62.6	75.2	67.6	62.8	53.4	55.1
LSD(0.05)	5.5	10.5	8.8	7.9	9.0	5.4	8.9
CV(%)	5.3	10.3	7.2	7.1	8.8	6.2	9.4

† Data not included in the mean: Tallassee, AL

TABLE 49 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL †
Ellis	64.0	39.8	72.8	60.0	67.7	53.4	37.0
JTN-5203	63.8	41.5	62.5	38.0	61.8	62.4	35.9
AG 5335	76.5	46.0	61.1	50.4	68.5	48.8	40.8
GoSoy 54G16	68.8	43.0	55.0	46.3	60.0	60.9	40.2
UA 5612	73.2	43.3	61.9	56.9	77.7	56.4	38.9
TN11-5140	82.4	43.9	59.5	45.0	75.8	65.6	45.9
DA09x39-26F	73.5	49.7	59.5	66.1	72.3	47.6	47.8
K14-1686	66.0	46.9	61.0	53.2	68.3	64.0	35.5
K14-1726	71.9	39.4	52.9	57.0	66.2	58.7	30.5
R10-298	68.7	40.5	61.1	61.7	68.3	43.9	39.4
R13-4638RY	74.3	51.3	64.7	57.1	80.2	56.9	52.8
R13-9687	75.1	45.6	63.4	64.6	70.8	62.0	41.3
R13-13997	79.8	42.3	61.6	57.1	78.7	68.9	46.3
R13-14635RR	72.0	39.7	65.1	37.0	70.8	61.3	42.7
S13-1955C	82.4	40.3	55.3	43.9	70.5	62.0	40.8
S14-9017R	85.7	40.0	62.7	51.8	72.9	61.4	32.2
S15-10434C	78.1	44.9	58.4	57.8	79.2	57.0	46.0
S15-16499C	76.2	41.0	54.9	54.8	73.6	54.1	36.3
S15-16505C	77.5	40.9	62.0	41.4	71.5	58.2	45.9
S15-16569C	60.5	38.0	57.3	67.6	57.3	60.0	40.2
TN11-5102	75.4	44.6	65.6	54.8	73.7	58.4	43.3
TN13-5531RR1	66.4	32.2	59.0	49.3	57.6	48.8	36.8
TN15-5008	74.2	49.0	60.2	53.3	65.6	45.5	26.4
TN16-521	63.0	39.6	69.3	61.7	69.4	57.0	38.3
TN16-645	62.9	40.8	65.5	63.6	69.8	59.5	41.0
V10-0262	72.7	46.8	62.4	52.7	68.8	64.7	33.6
V11-3485	63.2	38.0	55.4	52.0	68.2	61.0	27.9
V12-0045R2	78.4	42.8	62.0	60.8	71.4	51.9	41.9
V12-1416	67.7	41.5	64.1	44.2	68.4	59.7	43.3
Mean	72.2	42.5	61.2	53.8	69.8	57.6	39.6
LSD(0.05)	6.7	8.1	7.6	10.9	4.7	13.2	11.4
CV(%)	5.7	11.6	7.6	12.3	4.1	13.9	17.5

† Data not included in the mean: Tallassee, AL

TABLE 49 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST V 2017

STRAIN/ VARIETY	Warsaw, VA	Test Mean
Ellis	63.2	61.7
JTN-5203	58.7	58.6
AG 5335	58.4	62.0
GoSoy 54G16	59.3	58.2
UA 5612	65.3	62.6
TN11-5140	62.7	62.8
DA09x39-26F	63.9	61.7
K14-1686	60.6	63.2
K14-1726	61.9	60.9
R10-298	60.8	58.6
R13-4638RY	68.2	65.1
R13-9687	59.9	62.7
R13-13997	57.2	64.6
R13-14635RR	60.8	60.2
S13-1955C	67.9	63.5
S14-9017R	60.6	64.1
S15-10434C	57.3	64.6
S15-16499C	59.8	60.3
S15-16505C	58.4	59.2
S15-16569C	65.5	61.3
TN11-5102	62.1	63.7
TN13-5531RR1	54.8	56.2
TN15-5008	63.7	59.9
TN16-521	66.8	61.3
TN16-645	61.3	61.0
V10-0262	65.6	62.4
V11-3485	64.2	58.3
V12-0045R2	63.2	62.0
V12-1416	54.3	57.9
Mean	61.6	61.3
LSD(0.05)	13.4	3.9
CV(%)	13.3	11.3

† Data not included in the mean: Tallassee, AL

TABLE 50 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Knoxville, TN	Pittsburg, KS	Plymouth, NC	Portageville, MO(A)
Ellis	9/22	9/26	10/1	9/29	10/3	10/10	10/5
JTN-5203	2	1	1	0	-1	-1	-3
AG 5335	3	1	1	2	-1	-1	0
GoSoy 54G16	5	0	2	8	8	-1	1
UA 5612	5	1	9	10	8	5	5
TN11-5140	12	-1	11	12	10	11	9
DA09x39-26F	1	1	3	4	-2	-1	-1
K14-1686	1	1	-2	6	2	0	-2
K14-1726	0	-1	-4	0	-3	-7	-3
R10-298	1	0	3	0	1	-1	0
R13-4638RY	6	1	7	8	9	4	4
R13-9687	5	-1	5	6	1	1	1
R13-13997	7	1	9	9	9	1	5
R13-14635RR	4	1	0	9	1	2	1
S13-1955C	6	1	5	10	9	5	3
S14-9017R	3	1	3	4	-1	2	3
S15-10434C	4	1	4	9	8	3	2
S15-16499C	5	1	4	9	-2	-1	0
S15-16505C	8	0	9	11	10	8	6
S15-16569C	4	1	1	4	3	-2	-3
TN11-5102	3	-1	1	3	4	2	1
TN13-5531RR1	3	1	1	1	4	-1	0
TN15-5008	3	0	2	4	2	-1	-1
TN16-521	2	1	0	4	-2	3	-3
TN16-645	1	1	0	1	-2	0	-2
V10-0262	3	2	5	8	8	0	0
V11-3485	5	-1	5	9	3	4	2
V12-0045R2	2	1	-1	3	1	-1	0
V12-1416	8	-1	3	9	7	1	2
Mean	4	0	3	6	3	1	1
LSD(0.05)	3	1	4	3	4	3	2
CV(%)	42	222	80	37	72	147	112

TABLE 50 - RELATIVE MATURITY (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	10/10	10/2	9/20	9/21	10/24	10/8	10/2
JTN-5203	-1	0	1	-1	-5	3	0
AG 5335	-1	2	0	5	-3	1	1
GoSoy 54G16	2	1	-4	1	-7	5	2
UA 5612	6	3	3	9	-7	9	5
TN11-5140	11	4	-2	13	4	13	8
DA09x39-26F	1	0	1	1	-3	2	1
K14-1686	-1	-1	-4	2	-4	2	0
K14-1726	-2	0	-4	-3	-7	1	-3
R10-298	3	1	-2	3	-4	1	0
R13-4638RY	5	4	2	7	-2	9	5
R13-9687	5	1	0	5	-7	3	2
R13-13997	5	2	2	7	-4	4	4
R13-14635RR	3	0	3	7	-2	5	3
S13-1955C	4	3	-4	9	-2	8	4
S14-9017R	0	1	5	9	-6	3	2
S15-10434C	5	3	1	9	-2	6	4
S15-16499C	-1	2	2	5	-6	6	2
S15-16505C	7	2	3	11	-1	6	6
S15-16569C	1	1	1	0	0	2	1
TN11-5102	5	2	-3	10	-1	3	2
TN13-5531RR1	1	0	-5	1	-4	3	1
TN15-5008	4	0	-4	5	-6	2	1
TN16-521	2	2	-4	1	-1	4	1
TN16-645	2	1	-5	1	-4	2	0
V10-0262	6	0	-4	5	-5	6	3
V11-3485	8	0	-5	7	-7	6	3
V12-0045R2	2	1	2	5	-1	5	1
V12-1416	7	3	-4	10	-1	5	4
Mean	3	1	-1	5	-3	4	2
LSD(0.05)	3	2	2	3	4	4	2
CV(%)	56	78	101	33	73	51	126

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TABLE 51 - PLANT HEIGHT (INCHES)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	31	21	31	.	30	38	26
JTN-5203	33	24	36	.	30	41	23
AG 5335	44	34	45	.	40	41	41
GoSoy 54G16	42	26	40	.	37	46	34
UA 5612	39	31	38	.	35	42	32
TN11-5140	40	30	42	.	38	45	32
DA09x39-26F	37	27	41	.	36	38	25
K14-1686	34	25	32	.	32	42	28
K14-1726	35	25	34	.	34	42	31
R10-298	32	21	44	.	32	41	31
R13-4638RY	40	26	42	.	32	43	32
R13-9687	37	24	32	.	32	39	21
R13-13997	38	29	41	.	35	44	29
R13-14635RR	51	49	48	.	43	45	41
S13-1955C	36	24	37	.	33	44	22
S14-9017R	41	28	37	.	35	38	31
S15-10434C	35	25	37	.	33	40	25
S15-16499C	34	28	41	.	34	43	30
S15-16505C	43	29	42	.	36	44	35
S15-16569C	34	24	33	.	30	40	23
TN11-5102	39	24	39	.	37	43	31
TN13-5531RR1	38	24	38	.	33	42	24
TN15-5008	39	24	35	.	32	40	27
TN16-521	35	27	38	.	33	44	24
TN16-645	33	21	36	.	30	41	25
V10-0262	37	27	35	.	37	40	29
V11-3485	37	20	33	.	32	41	22
V12-0045R2	36	23	34	.	34	38	23
V12-1416	36	24	35	.	35	41	24
Mean	37	26	38	.	34	42	28
LSD(0.05)	4	4	5	.	3	4	8
CV(%)	6	9	9	.	5	5	14

TABLE 51 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	15	25	30	29	22	31	22
JTN-5203	17	23	32	30	24	33	21
AG 5335	33	27	33	39	36	45	29
GoSoy 54G16	25	25	34	31	25	36	23
UA 5612	27	28	36	36	31	40	26
TN11-5140	26	29	37	34	28	42	29
DA09x39-26F	24	27	34	33	26	33	23
K14-1686	19	27	31	33	20	33	22
K14-1726	20	26	32	29	22	32	20
R10-298	19	24	36	33	26	34	22
R13-4638RY	23	25	36	37	29	36	24
R13-9687	24	24	34	29	23	32	21
R13-13997	26	29	36	36	29	36	24
R13-14635RR	42	28	36	51	40	53	30
S13-1955C	24	25	34	28	25	37	22
S14-9017R	35	25	30	33	28	36	24
S15-10434C	24	24	34	30	26	34	21
S15-16499C	24	27	31	34	28	36	22
S15-16505C	35	27	41	41	32	40	26
S15-16569C	19	24	30	32	21	33	20
TN11-5102	22	27	33	34	28	35	23
TN13-5531RR1	20	24	33	34	25	33	20
TN15-5008	23	26	33	36	29	35	21
TN16-521	18	24	34	35	24	32	22
TN16-645	16	24	32	30	24	33	20
V10-0262	22	28	36	34	27	38	19
V11-3485	20	24	32	29	26	36	18
V12-0045R2	21	24	30	32	24	34	20
V12-1416	20	24	32	26	24	34	23
Mean	24	26	34	33	27	36	23
LSD(0.05)	5	3	4	3	4	5	4
CV(%)	13	7	6	5	9	9	10

TABLE 51 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	*Warsaw, VA*	*Test Mean*
Ellis	28	27
JTN-5203	30	28
AG 5335	31	37
GoSoy 54G16	31	32
UA 5612	35	34
TN11-5140	40	35
DA09x39-26F	32	31
K14-1686	30	29
K14-1726	29	29
R10-298	32	30
R13-4638RY	37	33
R13-9687	30	29
R13-13997	32	33
R13-14635RR	36	42
S13-1955C	32	30
S14-9017R	29	32
S15-10434C	29	30
S15-16499C	34	32
S15-16505C	37	36
S15-16569C	32	28
TN11-5102	32	32
TN13-5531RR1	29	30
TN15-5008	33	31
TN16-521	32	30
TN16-645	28	28
V10-0262	33	32
V11-3485	33	29
V12-0045R2	30	29
V12-1416	28	29
Mean	32	31
LSD(0.05)	5	2
CV(%)	10	10

TABLE 52 - PLANT LODGING (1-5)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	1.0	1.0	2.3		1.7	1.3	1.3
JTN-5203	1.7	1.0	3.3	.	2.3	2.3	1.3
AG 5335	1.7	1.7	3.3	.	2.0	1.3	1.5
GoSoy 54G16	2.0	1.0	3.3	.	3.0	2.0	1.5
UA 5612	3.3	1.3	4.3	.	3.3	3.0	2.3
TN11-5140	2.0	1.0	4.0	.	2.3	2.0	1.8
DA09x39-26F	2.7	1.3	3.7	.	2.7	2.0	1.0
K14-1686	1.3	1.0	3.3	.	2.0	1.3	1.5
K14-1726	1.0	1.0	2.7	.	1.7	2.0	1.3
R10-298	2.0	1.0	4.0	.	2.7	2.0	2.0
R13-4638RY	2.0	1.0	3.7	.	2.3	2.0	1.5
R13-9687	2.3	1.3	4.0	.	2.0	1.0	1.5
R13-13997	1.7	1.0	3.7	.	2.7	2.3	1.5
R13-14635RR	1.7	2.7	2.7	.	2.3	1.3	1.8
S13-1955C	2.3	1.0	4.7	.	4.3	3.0	1.3
S14-9017R	1.3	1.0	2.3	.	2.0	1.0	1.5
S15-10434C	3.0	1.3	4.0	.	3.3	3.7	1.5
S15-16499C	4.0	1.7	5.0	.	4.3	3.0	1.5
S15-16505C	3.0	2.0	4.7	.	4.3	3.7	3.3
S15-16569C	1.0	1.0	4.0	.	2.3	2.0	1.3
TN11-5102	1.7	1.0	3.7	.	2.0	1.7	1.3
TN13-5531RR1	2.0	1.0	3.7	.	2.0	1.7	1.0
TN15-5008	2.0	1.0	4.0	.	2.0	2.0	1.0
TN16-521	1.7	1.0	3.3	.	2.3	2.3	1.3
TN16-645	1.3	1.0	3.0	.	1.7	2.0	1.3
V10-0262	2.0	1.0	3.0	.	3.0	2.0	1.3
V11-3485	2.0	1.0	4.0	.	3.0	3.0	1.5
V12-0045R2	1.3	1.0	4.0	.	2.0	1.7	1.5
V12-1416	1.0	1.0	2.7	.	1.7	1.3	1.0
Mean	1.9	1.2	3.6	.	2.5	2.1	1.5
LSD(0.05)	0.8	0.6	0.7	.	0.7	0.5	0.7
CV(%)	24.5	32.7	12.7	.	16.5	16.1	22.3

TABLE 52 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	1.0	1.0	1.0	2.0	1.0	1.0	1.0
JTN-5203	1.0	1.0	1.5	2.3	1.0	1.2	1.0
AG 5335	2.0	1.0	1.0	3.0	1.3	1.3	1.0
GoSoy 54G16	1.0	1.0	1.0	2.0	1.0	1.3	1.0
UA 5612	2.3	2.3	2.2	3.0	2.0	2.0	1.0
TN11-5140	1.7	1.3	1.2	2.7	1.3	2.0	1.2
DA09x39-26F	1.3	1.3	1.3	2.0	1.0	2.3	1.5
K14-1686	1.0	1.7	1.0	2.7	1.0	1.3	1.0
K14-1726	1.0	1.0	1.3	2.0	1.0	1.0	1.0
R10-298	1.3	1.3	1.7	2.3	1.7	2.3	1.0
R13-4638RY	1.3	1.0	1.5	2.3	1.0	1.7	1.0
R13-9687	1.3	1.0	1.7	2.0	1.0	1.5	1.0
R13-13997	1.7	1.3	1.5	2.3	1.3	1.3	1.8
R13-14635RR	2.3	1.0	1.0	4.0	1.7	2.7	1.3
S13-1955C	1.3	1.7	2.2	2.0	1.0	1.8	1.0
S14-9017R	2.3	1.0	1.0	2.0	1.0	1.7	1.0
S15-10434C	2.0	1.3	2.2	2.3	1.0	3.2	1.2
S15-16499C	2.0	3.3	3.8	2.3	1.7	3.2	1.0
S15-16505C	4.0	3.3	4.0	4.0	2.3	4.2	2.0
S15-16569C	1.3	1.3	1.5	2.7	1.0	1.0	1.0
TN11-5102	1.0	1.0	1.2	2.3	1.0	1.3	1.0
TN13-5531RR1	1.0	1.0	1.0	2.0	1.3	1.5	1.0
TN15-5008	1.3	1.7	1.5	2.3	1.0	1.3	1.0
TN16-521	1.0	1.0	1.2	2.7	1.0	1.5	1.0
TN16-645	1.0	1.0	1.2	2.3	1.0	1.0	1.0
V10-0262	1.0	2.0	1.3	2.3	1.3	1.0	1.0
V11-3485	1.0	1.7	1.3	2.0	1.3	2.0	1.0
V12-0045R2	1.0	1.0	1.3	2.0	1.0	1.1	1.0
V12-1416	1.0	1.0	1.0	2.0	1.0	1.0	1.0
Mean	1.5	1.4	1.5	2.4	1.2	1.7	1.1
LSD(0.05)	0.7	0.7	0.5	0.6	0.6	0.8	0.5
CV(%)	27.6	29.3	20.9	15.7	28.1	28.2	26.2

TABLE 52 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Warsaw, VA	Test Mean
Ellis	1.1	1.3
JTN-5203	1.1	1.6
AG 5335	1.1	1.7
GoSoy 54G16	1.1	1.6
UA 5612	1.4	2.4
TN11-5140	1.3	1.8
DA09x39-26F	1.1	1.8
K14-1686	1.2	1.5
K14-1726	1.1	1.4
R10-298	1.3	1.9
R13-4638RY	1.1	1.7
R13-9687	1.1	1.6
R13-13997	1.2	1.8
R13-14635RR	1.2	2.0
S13-1955C	1.2	2.1
S14-9017R	1.0	1.4
S15-10434C	1.3	2.2
S15-16499C	1.7	2.8
S15-16505C	1.9	3.3
S15-16569C	1.1	1.6
TN11-5102	1.2	1.5
TN13-5531RR1	1.1	1.5
TN15-5008	1.2	1.7
TN16-521	1.2	1.6
TN16-645	1.2	1.4
V10-0262	1.3	1.7
V11-3485	1.4	1.9
V12-0045R2	1.1	1.5
V12-1416	1.1	1.3
Mean	1.2	1.8
LSD(0.05)	0.2	0.3
CV(%)	10.1	29.1

TABLE 53 - SEED QUALITY (1-5)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	1.0	1.0	2.0	2.0		2.0	2.0
JTN-5203	1.3	1.0	2.0	2.0	.	2.0	1.5
AG 5335	1.5	1.0	2.0	2.0	.	2.0	2.0
GoSoy 54G16	1.0	1.0	2.0	1.5	.	2.0	2.0
UA 5612	1.0	1.0	2.0	2.0	.	3.0	2.5
TN11-5140	1.0	1.0	2.0	2.0	.	3.0	2.5
DA09x39-26F	1.0	1.0	2.0	2.0	.	3.0	2.5
K14-1686	1.0	1.0	2.0	2.0	.	3.0	2.5
K14-1726	1.0	1.0	2.0	1.5	.	2.0	2.5
R10-298	1.0	1.0	2.0	1.5	.	3.0	1.5
R13-4638RY	1.0	1.0	2.0	2.0	.	3.0	1.5
R13-9687	1.0	1.0	2.0	1.5	.	3.0	1.5
R13-13997	1.0	1.0	2.0	2.0	.	3.0	1.5
R13-14635RR	1.5	1.0	2.3	2.0	.	3.0	2.5
S13-1955C	1.5	1.0	2.0	2.5	.	3.0	3.0
S14-9017R	2.0	1.0	2.3	2.0	.	3.0	3.0
S15-10434C	1.0	1.0	2.0	1.5	.	3.0	2.0
S15-16499C	1.8	1.0	2.3	2.0	.	3.0	2.5
S15-16505C	1.5	1.0	2.0	2.0	.	3.0	2.0
S15-16569C	1.0	1.0	3.0	2.0	.	2.0	2.0
TN11-5102	1.0	1.0	2.0	1.5	.	3.0	2.0
TN13-5531RR1	1.3	1.0	2.0	2.0	.	2.0	2.5
TN15-5008	1.0	1.0	2.0	1.5	.	2.0	2.0
TN16-521	1.2	1.0	2.0	2.0	.	3.0	2.5
TN16-645	1.2	1.0	2.0	2.0	.	3.0	2.5
V10-0262	1.0	1.0	2.0	2.0	.	3.0	1.5
V11-3485	1.0	1.0	2.0	2.0	.	2.0	3.0
V12-0045R2	1.5	1.0	2.3	1.5	.	3.0	2.0
V12-1416	1.0	1.0	2.0	2.0	.	2.0	2.0
Mean	1.2	1.0	2.1	1.9	.	2.7	2.2
LSD(0.05)	0.3	.	0.4	.	.	.	.
CV(%)	15.0	.	10.3	.	.	.	.

TABLE 53 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	1.3	1.0		2.0	1.5	3.0	1.2
JTN-5203	1.3	1.3	.	2.0	2.0	3.0	1.2
AG 5335	2.0	1.3	.	3.0	1.5	3.3	1.3
GoSoy 54G16	1.3	1.3	.	2.0	1.5	3.7	1.0
UA 5612	1.7	1.7	.	2.0	2.0	4.3	1.0
TN11-5140	1.7	1.3	.	2.0	1.5	3.0	1.0
DA09x39-26F	1.0	1.3	.	2.0	2.5	3.3	1.2
K14-1686	2.0	1.0	.	2.0	2.0	4.0	1.0
K14-1726	1.7	1.7	.	2.0	2.0	3.0	1.0
R10-298	1.7	1.3	.	2.0	1.5	4.0	1.2
R13-4638RY	1.7	2.0	.	2.0	1.5	4.0	1.0
R13-9687	1.3	1.3	.	2.0	1.5	3.3	1.2
R13-13997	1.3	1.7	.	2.0	2.0	4.0	1.0
R13-14635RR	1.7	2.3	.	2.0	2.0	4.0	1.0
S13-1955C	1.7	2.0	.	3.0	2.0	4.0	1.3
S14-9017R	3.0	2.3	.	3.0	2.5	3.7	1.5
S15-10434C	1.7	1.7	.	2.0	1.5	4.0	1.0
S15-16499C	1.7	2.0	.	2.0	1.5	3.3	1.0
S15-16505C	1.7	2.0	.	2.0	2.5	4.0	1.0
S15-16569C	1.7	1.7	.	2.0	2.0	3.0	1.0
TN11-5102	1.7	1.3	.	2.0	1.5	3.0	1.0
TN13-5531RR1	1.7	1.0	.	2.0	2.0	3.0	1.0
TN15-5008	1.7	2.0	.	2.0	2.0	3.0	1.3
TN16-521	1.3	1.3	.	2.0	1.5	3.0	1.0
TN16-645	1.7	1.0	.	2.0	1.0	3.0	1.0
V10-0262	1.3	1.3	.	2.0	1.5	3.0	1.0
V11-3485	1.3	2.0	.	2.0	2.5	3.0	1.0
V12-0045R2	2.0	2.0	.	2.0	2.5	3.5	1.0
V12-1416	1.3	1.0	.	2.0	2.0	4.0	1.0
Mean	1.6	1.6	.	2.1	1.8	3.5	1.1
LSD(0.05)	1.0	0.9	.	.	.	0.5	0.3
CV(%)	36.0	35.7	.	.	.	8.7	18.6

TABLE 53 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	*Warsaw, VA*	*Test Mean*
Ellis	1.2	1.6
JTN-5203	1.6	1.7
AG 5335	2.0	1.9
GoSoy 54G16	1.5	1.7
UA 5612	1.7	2.0
TN11-5140	2.3	1.8
DA09x39-26F	1.4	1.8
K14-1686	1.4	1.9
K14-1726	1.4	1.7
R10-298	1.5	1.8
R13-4638RY	1.6	1.9
R13-9687	1.5	1.7
R13-13997	1.5	1.8
R13-14635RR	1.7	2.1
S13-1955C	1.9	2.2
S14-9017R	1.8	2.4
S15-10434C	1.9	1.9
S15-16499C	1.6	2.0
S15-16505C	1.8	2.0
S15-16569C	1.8	1.9
TN11-5102	1.5	1.7
TN13-5531RR1	1.5	1.7
TN15-5008	1.5	1.8
TN16-521	1.5	1.8
TN16-645	1.3	1.7
V10-0262	1.8	1.7
V11-3485	1.7	1.8
V12-0045R2	1.9	2.0
V12-1416	1.5	1.8
Mean	1.6	1.9
LSD(0.05)	0.3	0.2
CV(%)	9.9	20.7

TABLE 54 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	*Belle Mina, AL*	*Bossier City, LA*	*Jackson, TN*	*Keiser, AR*	*Knoxville, TN*	*Pittsburg, KS*	*Plymouth, NC*
Ellis	12.6	13.8	13.4	13.5	.	12.6	13.1
JTN-5203	12.5	14.6	13.1	13.0	.	12.2	12.5
AG 5335	14.0	14.3	14.1	16.7	.	15.6	15.1
GoSoy 54G16	14.5	14.9	14.1	14.3	.	13.4	15.6
UA 5612	12.7	15.0	13.7	13.1	.	12.9	12.2
TN11-5140	15.1	15.9	15.3	14.3	.	12.8	15.3
DA09x39-26F	13.2	14.6	13.9	15.2	.	12.3	14.3
K14-1686	12.3	14.5	13.4	14.8	.	13.4	14.3
K14-1726	12.3	15.2	13.2	14.1	.	13.1	14.1
R10-298	14.1	16.7	14.8	15.7	.	10.4	14.3
R13-4638RY	14.5	15.7	14.8	14.5	.	11.3	15.2
R13-9687	13.6	14.4	14.6	14.4	.	11.0	14.6
R13-13997	16.1	17.1	15.7	15.9	.	11.2	16.5
R13-14635RR	13.2	14.1	14.6	15.5	.	14.0	14.0
S13-1955C	14.0	15.5	13.9	14.4	.	14.3	13.1
S14-9017R	13.7	13.5	14.3	16.6	.	15.3	13.2
S15-10434C	13.0	13.2	13.3	14.0	.	13.9	13.3
S15-16499C	14.1	15.8	16.2	15.1	.	13.4	14.5
S15-16505C	15.3	16.4	15.8	14.8	.	16.6	15.7
S15-16569C	16.4	19.0	16.6	16.9	.	15.5	17.4
TN11-5102	13.6	15.9	13.9	14.7	.	13.3	13.4
TN13-5531RR1	14.1	16.5	14.9	15.4	.	13.5	15.3
TN15-5008	14.2	14.4	13.4	15.8	.	13.7	13.4
TN16-521	10.9	13.2	12.0	12.2	.	11.0	12.6
TN16-645	11.2	12.1	12.1	12.0	.	10.7	11.8
V10-0262	14.5	16.0	15.1	15.6	.	14.4	15.8
V11-3485	15.2	14.4	14.6	14.3	.	14.4	14.8
V12-0045R2	16.8	17.4	16.4	16.6	.	15.6	16.7
V12-1416	14.7	13.9	13.7	13.6	.	11.5	13.5
Mean	13.9	15.1	14.3	14.7	.	13.2	14.3
LSD(0.05)	0.9	.	1.0	.	.	.	.
CV(%)	3.9	.	4.4	.	.	.	.

TABLE 54 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	14.5	13.9	.	12.5	12.5	15.2	14.9
JTN-5203	13.5	13.5	.	12.5	12.1	17.0	13.3
AG 5335	17.4	17.2	.	14.3	16.2	17.0	15.9
GoSoy 54G16	16.0	13.6	.	13.3	15.0	17.0	15.7
UA 5612	14.2	14.3	.	13.7	12.8	15.2	14.2
TN11-5140	15.7	13.0	.	12.3	15.1	16.0	16.1
DA09x39-26F	15.1	13.8	.	12.4	13.6	16.3	14.7
K14-1686	14.8	12.6	.	12.1	13.5	16.6	14.2
K14-1726	14.9	14.8	.	13.4	13.1	15.1	13.8
R10-298	16.4	16.2	.	15.6	14.0	16.1	17.3
R13-4638RY	15.3	14.4	.	14.5	15.7	16.8	15.2
R13-9687	16.2	14.1	.	12.8	14.9	16.6	14.5
R13-13997	17.3	15.1	.	15.0	16.6	18.8	15.9
R13-14635RR	15.3	14.3	.	14.2	14.6	15.2	14.6
S13-1955C	15.7	15.2	.	12.8	12.3	15.7	14.5
S14-9017R	17.6	16.1	.	14.2	14.4	16.5	14.3
S15-10434C	14.2	13.4	.	11.8	13.3	14.6	14.6
S15-16499C	16.5	15.0	.	13.8	14.4	17.0	15.7
S15-16505C	17.7	16.5	.	12.8	15.9	17.5	17.3
S15-16569C	18.5	17.4	.	16.0	16.3	18.9	17.1
TN11-5102	15.5	15.2	.	14.3	14.6	16.3	15.7
TN13-5531RR1	15.7	14.0	.	14.0	14.8	17.5	16.2
TN15-5008	15.8	15.6	.	14.0	13.8	15.7	16.0
TN16-521	12.6	12.9	.	11.9	11.6	14.0	13.4
TN16-645	12.6	12.4	.	12.0	11.5	13.6	14.1
V10-0262	14.8	13.8	.	14.7	16.0	17.7	13.9
V11-3485	15.4	15.4	.	13.7	15.6	18.1	14.7
V12-0045R2	18.8	17.5	.	16.7	16.7	18.3	19.9
V12-1416	15.2	13.2	.	13.1	15.3	16.0	15.0
Mean	15.6	14.6	.	13.6	14.4	16.4	15.3
LSD(0.05)	1.2	0.9	.	.	.	1.0	1.3
CV(%)	4.6	3.9	.	.	.	3.7	5.1

TABLE 54 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Warsaw, VA	Test Mean
Ellis	12.5	13.5
JTN-5203	13.7	13.4
AG 5335	16.5	15.7
GoSoy 54G16	14.1	14.7
UA 5612	13.3	13.7
TN11-5140	14.6	14.8
DA09x39-26F	14.5	14.2
K14-1686	13.4	13.8
K14-1726	13.7	13.9
R10-298	14.4	15.1
R13-4638RY	14.1	14.8
R13-9687	13.8	14.3
R13-13997	14.6	15.9
R13-14635RR	14.3	14.4
S13-1955C	13.7	14.3
S14-9017R	15.0	15.0
S15-10434C	13.7	13.6
S15-16499C	15.1	15.2
S15-16505C	15.4	16.0
S15-16569C	16.8	17.1
TN11-5102	13.8	14.6
TN13-5531RR1	14.1	15.0
TN15-5008	14.6	14.7
TN16-521	11.6	12.3
TN16-645	11.4	12.1
V10-0262	15.2	15.1
V11-3485	14.7	15.1
V12-0045R2	17.5	17.4
V12-1416	13.0	14.0
Mean	14.2	14.6
LSD(0.05)	1.0	0.6
CV(%)	4.4	6.0

TABLE 55 - OIL (%)†
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	19.3	.	19.0	18.1	18.5	18.5	18.0
JTN-5203	19.6	.	18.9	18.8	19.2	19.0	18.9
AG 5335	19.8	.	19.4	19.0	19.6	19.2	
GoSoy 54G16	19.6	.	19.8	19.5	19.1	19.4	19.2
UA 5612	19.7	.	19.3	18.4	18.3	18.8	18.8
TN11-5140	19.3	.	19.8	18.4	19.1	19.3	19.3
DA09x39-26F	19.5	.	19.3	18.5	18.5	19.7	18.9
K14-1686	19.6	.	19.8	18.8	18.7	19.3	19.3
K14-1726	18.8	.	18.2	17.8	18.0	18.3	18.2
R10-298	19.6	.	19.1	18.0	19.0	18.7	19.4
R13-4638RY	19.0	.	18.7	18.5	18.3	18.5	18.8
R13-9687	18.6	.	18.1	17.1	17.5	18.2	18.5
R13-13997	19.7	.	20.0	18.7	19.3	19.6	19.6
R13-14635RR	19.3	.	19.0	18.0	18.3	18.8	18.8
S13-1955C	19.8	.	19.2	18.8	18.6	19.7	19.9
S14-9017R	22.1	.	22.1	20.4	21.1	20.9	23.1
S15-10434C	19.1	.	19.0	17.1	18.2	18.7	18.0
S15-16499C	19.6	.	19.5	18.6	18.5	18.7	19.6
S15-16505C	19.7	.	18.3	19.1	18.6	19.6	
S15-16569C	20.0	.	19.3	19.4	19.8	19.4	19.6
TN11-5102	19.0	.	18.7	17.7	18.5	18.7	17.8
TN13-5531RR1	19.8	.	19.5	19.1	19.5	20.0	19.7
TN15-5008	18.8	.	18.6	17.9	18.3	18.4	18.1
TN16-521	19.1	.	18.5	18.5	18.6	18.9	19.1
TN16-645	19.2	.	18.9	17.7	18.2	18.5	18.4
V10-0262	19.5	.	19.2	18.1	18.3	18.3	18.5
V11-3485	18.8	.	18.0	17.8	17.8	18.7	19.7
V12-0045R2	18.5	.	18.7	17.7	18.3	18.3	18.8
V12-1416	20.1	.	19.2	18.7	19.3	19.7	19.7
		.					
Mean	19.5	.	19.1	18.4	18.7	19.0	19.1
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 55 - OIL (%)† (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	18.1	18.3	18.5	18.4	19.0	.	19.3
JTN-5203	18.2	19.5	19.6	19.5	18.9	.	20.2
AG 5335	18.6	19.9	19.6	19.1	19.9	.	20.9
GoSoy 54G16	18.6	19.9	19.6	20.3	19.3	.	20.6
UA 5612	18.0	19.0	18.8	19.4	18.6	.	20.2
TN11-5140	18.8	19.6	19.1	19.5	19.2	.	20.3
DA09x39-26F	18.6	19.5	18.8	19.2	18.7	.	19.1
K14-1686	19.0	19.3	19.2	19.8	19.5	.	20.3
K14-1726	18.2	18.6	18.1	19.3	18.2	.	19.8
R10-298	18.4	19.2	19.0	19.7	18.8	.	11.5
R13-4638RY	18.3	18.8	18.6	19.7	18.6	.	19.5
R13-9687	17.3	18.2	17.6	18.7	17.7	.	18.5
R13-13997	19.3	20.1	19.4	20.0	19.4	.	21.7
R13-14635RR	17.8	19.4	19.1	19.3	18.8	.	20.4
S13-1955C	18.2	19.9	19.8	19.8	19.1	.	20.6
S14-9017R	20.5	21.8	21.6	20.8	21.2	.	22.7
S15-10434C	17.7	19.3	18.7	19.2	18.6	.	19.5
S15-16499C	18.5	19.4	19.2	20.6	19.8	.	20.8
S15-16505C	18.3	19.6	18.6	20.7	19.6	.	20.6
S15-16569C	19.7	20.0	19.3	20.5	19.4	.	21.4
TN11-5102	17.6	18.2	17.7	18.8	18.4	.	19.4
TN13-5531RR1	18.9	20.3	19.0	20.2	19.5	.	20.1
TN15-5008	17.5	18.1	18.1	18.5	17.8	.	19.2
TN16-521	18.7	18.4	18.5	19.2	18.8	.	19.4
TN16-645	18.4	18.4	18.3	19.1	18.6	.	19.5
V10-0262	18.2	18.9	18.5	19.0	18.5	.	21.3
V11-3485	17.8	18.6	18.2	19.4	18.4	.	20.5
V12-0045R2	17.9	18.6	18.4	18.1	18.2	.	20.1
V12-1416	19.1	19.5	19.3	17.1	19.4	.	21.6
						.	
Mean	18.4	19.2	18.9	19.4	19.0	.	20.0
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

TABLE 55 - OIL (%)† (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	*Warsaw, VA*	*Test Mean*
Ellis	17.8	18.5
JTN-5203	18.8	19.2
AG 5335	19.4	19.5
GoSoy 54G16	18.4	19.5
UA 5612	18.6	18.9
TN11-5140	18.6	19.3
DA09x39-26F	18.6	19.0
K14-1686	18.8	19.3
K14-1726	18.1	18.4
R10-298	18.8	18.4
R13-4638RY	17.8	18.7
R13-9687	16.8	17.9
R13-13997	18.8	19.7
R13-14635RR	17.9	18.8
S13-1955C	19.0	19.4
S14-9017R	20.5	21.4
S15-10434C	17.8	18.5
S15-16499C	18.1	19.3
S15-16505C	17.5	19.2
S15-16569C	18.9	19.7
TN11-5102	17.8	18.3
TN13-5531RR1	18.2	19.5
TN15-5008	18.4	18.3
TN16-521	17.7	18.7
TN16-645	17.3	18.5
V10-0262	18.2	18.8
V11-3485	17.4	18.6
V12-0045R2	17.1	18.4
V12-1416	18.9	19.3
Mean	18.3	19.0
LSD(0.05)	.	0.5
CV(%)	.	3.2

TABLE 56 - PROTEIN (%)†
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Jackson, TN	Keiser, AR	Knoxville, TN	Pittsburg, KS	Plymouth, NC
Ellis	34.2	.	33.9	34.8	35.1	33.5	36.8
JTN-5203	34.9	.	34.8	34.7	35.9	33.8	35.5
AG 5335	34.2	.	33.8	35.3	34.2	34.6	
GoSoy 54G16	32.5	.	31.9	32.7	34.5	31.8	34.6
UA 5612	33.4	.	33.8	35.4	37.1	34.9	34.9
TN11-5140	34.1	.	34.6	35.8	36.8	34.7	36.6
DA09x39-26F	33.8	.	34.1	35.1	35.4	33.4	34.4
K14-1686	33.7	.	33.6	35.2	36.6	34.4	35.6
K14-1726	35.3	.	36.4	36.8	37.5	35.7	36.5
R10-298	34.4	.	34.4	36.2	35.8	35.0	33.7
R13-4638RY	34.2	.	34.9	35.0	36.9	34.6	35.1
R13-9687	34.3	.	35.3	36.8	36.9	34.6	33.7
R13-13997	35.1	.	34.1	35.2	36.4	34.3	36.0
R13-14635RR	34.0	.	34.9	36.0	35.6	34.6	35.4
S13-1955C	32.3	.	33.4	34.8	35.6	33.2	33.4
S14-9017R	30.5	.	30.5	34.8	32.9	32.4	28.3
S15-10434C	34.3	.	34.5	36.9	36.5	34.9	36.3
S15-16499C	32.2	.	31.8	32.9	33.5	31.3	31.8
S15-16505C	32.9	.	33.7	34.2	35.5	32.4	
S15-16569C	33.8	.	34.8	35.0	33.7	34.0	34.8
TN11-5102	35.7	.	36.3	36.8	36.8	35.2	38.0
TN13-5531RR1	31.0	.	31.7	32.9	32.9	30.9	33.1
TN15-5008	36.6	.	34.0	37.7	38.2	36.1	36.8
TN16-521	32.9	.	34.6	34.3	35.2	33.5	34.2
TN16-645	33.5	.	33.9	35.3	35.6	34.3	35.2
V10-0262	35.1	.	35.7	37.4	37.8	36.1	38.6
V11-3485	34.2	.	36.6	36.3	36.5	35.0	33.7
V12-0045R2	34.5	.	34.1	34.3	35.6	34.2	34.8
V12-1416	32.1	.	33.7	35.0	34.9	32.4	34.0
		.					
Mean	33.8	.	34.1	35.3	35.7	34.0	34.9
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 56 - PROTEIN (%)† (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	Portageville, MO(A)	Portageville, MO(B)	Springfield, TN	Stoneville, MS	Stuttgart, AR	Suffolk, VA	Tallassee, AL
Ellis	35.5	34.5	34.4	34.3	34.0	.	34.6
JTN-5203	36.8	34.8	34.4	35.0	34.8	.	34.2
AG 5335	36.4	35.2	34.3	36.0	33.3	.	33.0
GoSoy 54G16	34.2	32.5	32.5	32.2	32.8	.	32.0
UA 5612	35.6	34.8	34.8	34.4	34.0	.	33.6
TN11-5140	36.0	34.6	37.4	35.3	35.1	.	33.9
DA09x39-26F	35.0	34.1	34.5	33.8	34.8	.	35.6
K14-1686	35.1	34.5	35.2	34.4	35.0	.	33.3
K14-1726	37.3	35.7	36.9	35.6	36.1	.	34.2
R10-298	36.2	35.2	34.9	34.4	35.5	.	40.4
R13-4638RY	35.6	34.6	35.1	33.4	34.7	.	33.3
R13-9687	37.0	35.4	36.5	34.9	36.8	.	36.2
R13-13997	35.1	32.1	35.3	34.8	34.4	.	31.5
R13-14635RR	36.6	34.5	33.9	34.4	35.2	.	32.2
S13-1955C	35.8	33.5	32.9	34.7	34.2	.	33.2
S14-9017R	33.6	31.4	32.5	32.2	31.7	.	31.7
S15-10434C	36.6	35.3	36.1	33.9	35.8	.	35.0
S15-16499C	33.0	31.1	33.0	32.5	31.9	.	30.2
S15-16505C	35.6	33.7	34.0	32.3	32.7	.	31.8
S15-16569C	34.5	33.4	34.5	34.0	34.5	.	31.7
TN11-5102	37.3	36.6	37.4	35.8	36.5	.	36.8
TN13-5531RR1	34.1	31.5	33.2	32.7	33.0	.	32.5
TN15-5008	38.2	38.1	37.2	37.1	36.6	.	36.9
TN16-521	33.9	35.4	34.7	34.0	34.1	.	34.1
TN16-645	35.0	35.0	35.0	34.1	34.3	.	33.5
V10-0262	38.0	36.0	35.6	37.4	36.9	.	33.1
V11-3485	37.1	35.2	35.5	34.9	36.4	.	32.0
V12-0045R2	35.6	33.1	34.1	34.0	35.3	.	32.7
V12-1416	34.5	34.0	34.0	33.7	34.0	.	30.4
						.	
Mean	35.7	34.3	34.8	34.3	34.6	.	33.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

TABLE 56 - PROTEIN (%)† (continued)
UNIFORM GROUP V 2017

STRAIN/ VARIETY	*Warsaw, VA*	*Test Mean*
Ellis	34.7	34.6
JTN-5203	34.9	34.9
AG 5335	35.2	34.6
GoSoy 54G16	33.7	32.9
UA 5612	35.0	34.7
TN11-5140	35.9	35.4
DA09x39-26F	35.4	34.6
K14-1686	34.7	34.7
K14-1726	35.7	36.1
R10-298	34.5	35.4
R13-4638RY	35.7	34.9
R13-9687	35.8	35.7
R13-13997	35.1	34.6
R13-14635RR	35.5	34.8
S13-1955C	34.0	33.9
S14-9017R	32.7	31.9
S15-10434C	36.6	35.6
S15-16499C	33.2	32.2
S15-16505C	35.6	33.7
S15-16569C	34.7	34.1
TN11-5102	36.1	36.6
TN13-5531RR1	34.0	32.6
TN15-5008	37.1	37.0
TN16-521	34.8	34.3
TN16-645	34.9	34.6
V10-0262	35.9	36.4
V11-3485	36.7	35.4
V12-0045R2	35.8	34.5
V12-1416	34.6	33.6
Mean	35.1	34.6
LSD(0.05)	.	0.7
CV(%)	.	2.5

TABLE 57 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP V-EARLY 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	Ellis	5002T x 5601T	Commercial		Conv	
2	JTN-5203	R93-171 x Anand	Arelli	F17	Conv	SCN, FLS
3	AG 5335	Commercial check	Commercial		RR2	
4	GoSoy 54G16	Commercial check	Pantalone		RR1	
5	DA0912-07F	DT99-17483 x PI340023	Gillen		Conv	
6	DA0912-10F	DT99-17483 x PI340023	Gillen		Conv	
7	DA1037-25F	DB03-1381 x DB03-8416	Gillen		Conv	
8	DA1139-031F	R04-357 x DB04-10836	Gillen		Conv	
9	K13-1830	DS-880 / R04-357	Schapaugh	F4	Conv	
10	K15-1788	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
11	K15-1800	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
12	K15-1809	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	
13	K15-1853	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	STS
14	K15-1854	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	STS
15	K15-1855	NCC05-1261 / 435.TCS	Schapaugh	F5	Conv	STS
16	LW13-2096	LD02-4485 x PI 506764	Ben Fallen		Conv	
17	R13-10658	R09-131 x R07-2000	Mozzoni	F3	Conv	> 7% Sucrose, <2% Stachyose, DNC
18	R14-356	NCC05-1261 x R04-357	Mozzoni	F5	Conv	
19	R14-898	R05-235 x S021431C	Mozzoni	F5	Conv	
20	R14-2893RR	Glenn x R08-550RR	Mozzoni	F5	RR1	
21	R14-14797RR	C1176 x R04-1250RR	Mozzoni	F4	RR1	
22	S15-12298C	S11-15857 x V08-1924	Chen		Conv	
23	S15-13637C	S11-14954 x S11-20124RR1	Chen		Conv	
24	S15-16535C	R09-4010 x V08-1924	Chen		Conv	
25	S15-16592C	R09-4010 x V08-1924	Chen		Conv	
26	S15-16886C	R09-430 x V08-1924	Chen		Conv	
27	S15-17108C	S11-15857 x R09-430	Chen		Conv	
28	S15-17812C	S05-11482 x CR12-739TP	Chen		Conv	HO
29	TN13-4304	Reselection of AVRDC AGS 292	Pantalone		Conv	Meal Protein ? 48%
30	TN15-5012	Osage x TN07-754	Pantalone		Conv	Meal Protein ? 48%
31	TN16-510	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
32	TN16-630	Ellis[4] x TN13-4730RR1, BC4F2 derived	Pantalone		RR1	
33	TN16-5817RR1	Ellis[2] x TN13-4730RR1, BC2 derived	Pantalone		RR1	
34	TN16-5858R1	Ellis[1] x TN13-5535RR1, BC1 derived	Pantalone		RR1	
35	V12-3446	R01-3474F x TN02-226	Zhang	F4	Conv	
36	V12-4590	V03-5901 x V98-9005	Zhang	F4	Conv	> 50% meal, LP, Sugars
37	V13-3833	Glenn x V07-0873	Zhang	F4	Conv	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 58 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST V-EARLY 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 2	Race 3	Race 5	SC RATING	SC SCORE
Ellis	60.4	11	16	0	1.4	28	.	5	5	R	1
JTN-5203	58.0	22	20	1	1.7	29	.	1	1	SS	3
AG 5335	59.1	19	19	1	1.7	35	.	2	4	R	1
GoSoy 54G16	54.5	34	27	1	1.8	33	.	1	1	S	5
DA0912-07F	57.9	23	21	5	1.9	29	.	5	.	R	1
DA0912-10F	56.5	25	22	5	1.9	29	.	.	5	R	1
DA1037-25F	62.1	8	13	3	1.9	27	.	5	5	R	1
DA1139-031F	56.0	30	24	2	1.9	30	.	5	1	R	1
K13-1830	59.7	14	18	1	1.6	30	.	3	4	MS	4
K15-1788	64.8	4	10	1	1.8	27	.	5	5	R	1
K15-1800	65.3	1	8	2	1.5	26	.	5	5	R	1
K15-1809	65.1	3	10	4	1.6	28	.	4	5	R	1
K15-1853	59.9	13	16	-2	1.8	29	.	2	1	R	1
K15-1854	58.8	20	18	-1	2.1	28	.	3	1	R	1
K15-1855	59.4	15	19	-1	1.7	29	.	1	1	R	1
LW13-2096	46.6	37	34	3	2.8	40	.	4	4	R	1
R13-10658	54.7	32	26	5	2.4	34	.	5	5	R	1
R14-356	62.0	9	13	2	2.5	31	.	5	5	R	1
R14-898	59.1	17	18	3	2.3	36	.	5	4	R	1
R14-2893RR	56.0	29	24	3	2.3	33	.	5	5	MR	2
R14-14797RR	58.7	21	19	4	2.0	36	.	5	5	R	1
S15-12298C	59.2	16	17	6	3.4	36	.	1	1	SS	3
S15-13637C	56.2	27	22	5	3.2	47	.	5	5	MR	2
S15-16535C	56.2	28	22	6	2.6	34	.	5	4	MS	4
S15-16592C	54.5	33	27	1	2.0	31	.	5	4	MS	4
S15-16886C	60.3	12	16	1	2.4	34	.	5	1	MS	4
S15-17108C	56.8	24	21	0	2.3	30	.	5	5	S	5
S15-17812C	59.1	18	19	-1	2.1	31	.	5	2	R	1
TN13-4304	62.4	7	14	1	1.8	32	.	5	5	R	1
TN15-5012	54.9	31	26	1	1.5	28	.	5	5	R	1
TN16-510	65.1	2	8	1	1.7	29	.	5	5	R	1
TN16-630	62.7	6	11	0	1.6	32	.	5	5	R	1
TN16-5817RR1	60.6	10	16	3	1.7	30	.	5	5	R	1
TN16-5858R1	63.6	5	10	3	1.7	31	.	2	1	R	1
V12-3446	53.2	35	28	-3	1.5	28	.	5	5	SS	3
V12-4590	51.5	36	31	0	1.8	31	.	5	5	S	5
V13-3833	56.2	26	23	-3	1.4	26	.	5	4	R	1
Mean	58.6	.	.	2	2.0	31	.	.	.		.
LSD(0.05)	5.3	.	.	3	.	3	.	.	.		.
CV(%)	12.3	.	.	210	.	11	.	.	.		.

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

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

TABLE 58 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST V-EARLY 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
Ellis	1.7	13.1	34.9	18.4	W	G	T
JTN-5203	1.9	13.3	35.2	19.1	W	G	T
AG 5335	1.9	15.5	35.1	19.5	W	G	T
GoSoy 54G16	1.6	13.9	33.1	19.4	W	G	T
DA0912-07F	1.7	14.3	35.9	18.6	P	G	T
DA0912-10F	1.8	14.9	35.4	18.7	P	G	T
DA1037-25F	2.1	14.7	35.4	18.5	P	G	T
DA1139-031F	1.7	12.1	35.2	19.2	P	T	T
K13-1830	1.8	12.8	34.6	18.7	P	G	T
K15-1788	1.7	13.8	36.8	18.5	S	G	T
K15-1800	1.7	13.2	36.8	18.4	W	G	T
K15-1809	1.8	13.9	36.6	18.4	S	G	T
K15-1853	1.8	13.4	34.9	18.5	W	G	T
K15-1854	2.0	13.1	35.1	18.0	W	G	T
K15-1855	1.7	12.7	35.4	18.1	W	G	T
LW13-2096	2.0	15.4	36.4	18.5	W	T	T
R13-10658	1.9	14.8	35.0	18.9	P	G	T
R14-356	1.8	12.5	34.5	19.0	W	G	T
R14-898	2.0	16.2	34.6	19.1	W	G	T
R14-2893RR	1.9	15.9	34.8	19.2	P	T	T
R14-14797RR	1.9	15.8	35.6	18.6	P	T	T
S15-12298C	2.0	14.5	34.5	19.0	W	G	T
S15-13637C	2.2	15.4	34.7	19.5	W	T	Br
S15-16535C	2.1	15.5	34.0	20.7	W	T	Br
S15-16592C	2.1	15.3	34.5	19.7	W	G	Br
S15-16886C	1.8	12.3	34.6	19.4	W	G	T
S15-17108C	1.8	13.1	35.1	18.9	W	G	T
S15-17812C	2.0	14.2	34.7	19.3	W	G	T
TN13-4304	1.9	14.9	36.5	18.5	W	G	T
TN15-5012	1.7	12.4	37.4	18.3	W	G	T
TN16-510	1.8	12.4	35.2	18.4	W	G	T
TN16-630	1.8	12.2	34.9	18.6	W	G	T
TN16-5817RR1	1.8	13.0	33.5	19.8	W	G	T
TN16-5858R1	1.7	12.7	33.4	19.4	W	G	T
V12-3446	2.0	13.9	35.4	19.0	P	T	T
V12-4590	2.0	17.2	37.2	19.2	P	G	T
V13-3833	1.7	13.9	34.9	18.8	P	G	T
Mean	1.9	14.0	35.2	18.9			
LSD(0.05)	0.3	0.8	0.8	0.6			
CV(%)	17.5	6.2	2.7	3.3			

TABLE 59 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	81.6	77.7	40.1	54.6	66.7	38.2	62.9
JTN-5203	74.6	71.2	34.9	61.3	67.9	45.6	51.1
AG 5335	63.5	69.2	34.4	62.0	74.7	36.9	70.1
GoSoy 54G16	65.0	66.0	38.0	57.5	62.0	37.4	51.6
DA0912-07F	62.3	64.6	45.9	58.4	62.0	42.2	55.5
DA0912-10F	66.9	66.4	44.6	53.6	49.4	48.1	51.7
DA1037-25F	72.1	72.3	40.0	62.2	62.4	52.5	65.5
DA1139-031F	68.2	60.0	38.9	57.6	54.1	47.3	56.6
K13-1830	66.6	76.8	43.9	67.3	62.8	52.0	57.2
K15-1788	68.6	86.1	42.5	70.2	67.9	62.6	63.0
K15-1800	73.5	85.3	46.6	64.0	64.6	56.2	65.4
K15-1809	67.9	85.1	48.4	69.7	71.0	54.9	66.7
K15-1853	71.4	73.0	40.6	69.6	75.9	48.9	49.8
K15-1854	70.7	57.6	45.9	62.4	73.2	50.3	45.5
K15-1855	66.2	65.1	44.1	61.4	82.8	56.6	53.6
LW13-2096	53.1	52.8	28.7	41.4	49.2	36.9	41.1
R13-10658	60.6	68.9	36.8	62.3	52.9	46.5	47.2
R14-356	62.0	72.8	38.6	63.4	69.3	53.5	64.2
R14-898	70.9	69.9	29.9	59.3	56.6	58.8	54.4
R14-2893RR	65.6	72.8	36.9	58.9	57.5	38.3	53.4
R14-14797RR	68.2	72.6	31.1	59.4	60.6	44.0	54.1
S15-12298C	76.9	72.6	49.7	68.9	61.3	48.1	41.0
S15-13637C	62.6	70.6	40.6	54.1	58.9	57.6	35.7
S15-16535C	69.5	76.0	31.3	56.8	55.0	50.9	41.3
S15-16592C	59.8	69.0	32.2	56.7	56.6	49.8	45.4
S15-16886C	69.5	70.5	40.9	60.5	64.3	52.3	57.1
S15-17108C	65.5	73.1	34.1	60.5	59.2	41.3	50.6
S15-17812C	83.1	73.3	30.3	71.3	64.6	44.4	46.1
TN13-4304	75.1	74.0	28.7	79.2	66.1	61.1	46.5
TN15-5012	65.5	65.1	33.3	53.9	56.5	39.1	63.0
TN16-510	83.1	74.1	37.4	70.8	66.5	52.7	63.7
TN16-630	69.2	73.8	37.8	67.3	64.7	50.9	61.7
TN16-5817RR1	75.5	77.5	28.5	51.8	62.1	53.6	62.9
TN16-5858R1	71.4	71.8	49.0	71.6	66.9	51.0	58.8
V12-3446	62.3	61.0	37.6	57.8	58.7	42.5	49.5
V12-4590	56.8	62.9	29.7	42.7	54.5	45.1	51.9
V13-3833	65.2	72.8	30.5	69.7	61.3	27.1	65.8
Mean	68.4	70.9	37.9	61.3	62.7	48.0	54.6
LSD(0.05)	14.5	11.1	9.2	11.7	5.8	10.9	14.6
CV(%)	10.4	7.7	11.9	9.1	4.6	11.2	12.8

TABLE 59 - SEED YIELD (BUSHELS PER ACRE) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	66.8	39.6	76.2	60.4
JTN-5203	63.6	36.7	73.6	58.0
AG 5335	70.0	34.9	75.0	59.1
GoSoy 54G16	63.7	36.6	67.0	54.5
DA0912-07F	61.9	48.7	77.0	57.9
DA0912-10F	58.8	49.4	74.9	56.5
DA1037-25F	68.4	42.2	83.1	62.1
DA1139-031F	62.2	43.2	73.3	56.0
K13-1830	67.1	30.7	72.5	59.7
K15-1788	67.7	39.4	80.4	64.8
K15-1800	73.8	44.3	79.6	65.3
K15-1809	78.2	36.0	73.2	65.1
K15-1853	67.5	44.2	58.4	59.9
K15-1854	64.7	47.4	70.1	58.8
K15-1855	68.1	33.6	62.4	59.4
LW13-2096	68.1	36.4	57.9	46.6
R13-10658	62.5	46.6	62.5	54.7
R14-356	81.0	37.6	77.3	62.0
R14-898	79.0	37.6	74.6	59.1
R14-2893RR	69.5	35.4	72.4	56.0
R14-14797RR	74.9	50.5	72.1	58.7
S15-12298C	53.8	45.0	74.9	59.2
S15-13637C	73.3	36.8	72.1	56.2
S15-16535C	70.0	43.4	67.7	56.2
S15-16592C	63.8	38.4	73.6	54.5
S15-16886C	71.4	42.7	73.9	60.3
S15-17108C	74.2	47.2	62.0	56.8
S15-17812C	67.6	42.9	67.3	59.1
TN13-4304	68.7	43.0	78.5	62.4
TN15-5012	67.3	32.2	73.4	54.9
TN16-510	73.8	47.3	81.7	65.1
TN16-630	75.2	45.4	81.1	62.7
TN16-5817RR1	67.2	43.9	82.8	60.6
TN16-5858R1	70.6	45.1	80.1	63.6
V12-3446	54.1	31.3	77.0	53.2
V12-4590	63.0	36.1	72.4	51.5
V13-3833	64.5	32.6	72.9	56.2
Mean	68.0	40.7	73.1	58.6
LSD(0.05)	8.8	9.5	14.1	5.3
CV(%)	6.4	11.5	9.5	12.3

TABLE 60 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	10/3	.	10/11	9/30	10/3	10/10	9/19
JTN-5203	0	.	2	2	5	-1	-2
AG 5335	-2	.	3	3	1	2	1
GoSoy 54G16	-2	.	-2	7	9	0	-3
DA0912-07F	9	.	4	7	6	9	4
DA0912-10F	6	.	1	6	10	9	5
DA1037-25F	-2	.	3	4	3	8	3
DA1139-031F	0	.	-3	2	9	3	4
K13-1830	0	.	0	5	1	0	-1
K15-1788	-2	.	-1	2	2	4	-3
K15-1800	0	.	-3	5	5	7	-4
K15-1809	3	.	2	9	9	8	-3
K15-1853	-6	.	1	-3	5	2	-12
K15-1854	-6	.	0	-1	7	0	-12
K15-1855	-2	.	0	1	8	2	-13
LW13-2096	6	.	1	10	1	3	1
R13-10658	3	.	2	10	10	6	2
R14-356	-2	.	0	6	3	5	1
R14-898	0	.	1	3	3	6	-2
R14-2893RR	3	.	0	4	7	3	0
R14-14797RR	9	.	1	9	10	8	-2
S15-12298C	2	.	4	9	9	3	4
S15-13637C	3	.	2	9	8	7	7
S15-16535C	9	.	2	9	9	5	3
S15-16592C	-3	.	4	2	-3	0	4
S15-16886C	0	.	0	6	0	0	-4
S15-17108C	-2	.	0	7	1	0	-3
S15-17812C	0	.	1	6	-1	-1	-1
TN13-4304	-3	.	0	2	2	4	-4
TN15-5012	0	.	0	6	2	4	-3
TN16-510	0	.	-1	6	-2	2	-3
TN16-630	-6	.	-3	2	3	3	-2
TN16-5817RR1	1	.	0	3	5	4	2
TN16-5858R1	0	.	-3	6	9	5	0
V12-3446	-5	.	1	-5	-3	-2	-8
V12-4590	-2	.	0	3	5	2	-12
V13-3833	-1	.	-5	1	-2	0	-8
Mean	0	.	0	4	4	3	-2
LSD(0.05)	5	.	2	6	5	3	2
CV(%)	745	.	344	69	51	53	-62

TABLE 60 - RELATIVE MATURITY (continued)
UNIFORM GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	9/22	10/27	10/6	10/5
JTN-5203	-3	-3	5	1
AG 5335	2	-3	2	1
GoSoy 54G16	0	-10	8	1
DA0912-07F	6	-10	9	5
DA0912-10F	6	-6	11	5
DA1037-25F	-1	4	7	3
DA1139-031F	3	-10	6	2
K13-1830	6	-6	2	1
K15-1788	2	-2	3	1
K15-1800	4	1	4	2
K15-1809	4	-6	6	4
K15-1853	-2	-1	0	-2
K15-1854	-1	5	1	-1
K15-1855	-1	-6	2	-1
LW13-2096	9	-6	4	3
R13-10658	6	-2	9	5
R14-356	6	-8	10	2
R14-898	4	-6	14	3
R14-2893RR	5	-8	8	3
R14-14797RR	6	-11	10	4
S15-12298C	6	4	9	6
S15-13637C	2	-2	11	5
S15-16535C	8	-3	8	6
S15-16592C	1	-2	7	1
S15-16886C	0	-3	7	1
S15-17108C	2	-3	1	0
S15-17812C	-2	-3	-4	-1
TN13-4304	1	-1	5	1
TN15-5012	0	-3	2	1
TN16-510	0	-2	5	1
TN16-630	-1	-1	7	0
TN16-5817RR1	3	-2	7	3
TN16-5858R1	1	-6	11	3
V12-3446	-2	-4	3	-3
V12-4590	3	-3	7	0
V13-3833	-3	-11	-1	-3
Mean	2	-4	5	2
LSD(0.05)	3	4	5	3
CV(%)	59	55	48	210

TABLE 61 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	29	.	32	26	39	24	29
JTN-5203	32	.	29	28	41	23	31
AG 5335	36	.	34	38	43	24	41
GoSoy 54G16	37	.	34	36	49	25	35
DA0912-07F	40	.	29	22	42	23	34
DA0912-10F	34	.	25	27	39	23	32
DA1037-25F	31	.	31	27	36	18	27
DA1139-031F	38	.	29	28	44	24	29
K13-1830	35	.	31	33	40	21	32
K15-1788	31	.	28	28	34	25	28
K15-1800	28	.	25	29	34	19	31
K15-1809	28	.	31	28	36	26	31
K15-1853	30	.	30	31	39	26	27
K15-1854	32	.	30	32	37	24	26
K15-1855	30	.	29	36	41	29	30
LW13-2096	45	.	30	44	46	34	45
R13-10658	38	.	39	33	45	28	38
R14-356	37	.	36	32	40	24	29
R14-898	42	.	39	30	47	31	34
R14-2893RR	36	.	38	35	43	26	35
R14-14797RR	43	.	38	35	45	25	40
S15-12298C	39	.	46	40	52	25	37
S15-13637C	53	.	48	51	48	40	59
S15-16535C	41	.	36	27	44	28	38
S15-16592C	40	.	35	28	43	27	31
S15-16886C	43	.	37	31	43	27	38
S15-17108C	32	.	36	29	43	25	32
S15-17812C	35	.	30	30	43	27	33
TN13-4304	38	.	40	31	42	27	33
TN15-5012	30	.	29	29	38	24	30
TN16-510	31	.	33	27	41	22	33
TN16-630	36	.	36	31	46	21	36
TN16-5817RR1	29	.	35	26	39	26	32
TN16-5858R1	33	.	34	33	42	24	32
V12-3446	30	.	34	29	37	26	25
V12-4590	35	.	33	31	41	23	30
V13-3833	29	.	27	28	35	17	30
Mean	35	.	33	31	41	25	33
LSD(0.05)	7	.	.	7	4	6	3
CV(%)	10	.	.	11	5	13	5

TABLE 61 - PLANT HEIGHT (INCHES) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	22	19	31	28
JTN-5203	23	19	34	29
AG 5335	32	29	39	35
GoSoy 54G16	25	24	38	33
DA0912-07F	21	20	35	29
DA0912-10F	22	23	33	29
DA1037-25F	26	18	33	27
DA1139-031F	23	20	34	30
K13-1830	27	22	31	30
K15-1788	24	19	31	27
K15-1800	22	18	31	26
K15-1809	23	21	30	28
K15-1853	23	22	29	29
K15-1854	21	21	30	28
K15-1855	24	19	29	29
LW13-2096	43	33	37	40
R13-10658	31	24	32	34
R14-356	30	22	33	31
R14-898	36	26	43	36
R14-2893RR	26	23	34	33
R14-14797RR	31	28	38	36
S15-12298C	26	28	34	36
S15-13637C	48	35	44	47
S15-16535C	32	24	38	34
S15-16592C	23	23	34	31
S15-16886C	32	22	36	34
S15-17108C	26	23	29	30
S15-17812C	31	17	31	31
TN13-4304	26	22	34	32
TN15-5012	25	18	31	28
TN16-510	22	22	34	29
TN16-630	26	22	36	32
TN16-5817RR1	28	22	36	30
TN16-5858R1	26	20	38	31
V12-3446	20	21	34	28
V12-4590	24	24	37	31
V13-3833	21	16	29	26
Mean	27	22	34	31
LSD(0.05)	6	4	6	3
CV(%)	10	9	9	11

TABLE 62 - PLANT LODGING (1-5)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	3.0	.	1.5	1.0	1.0	1.0	2.0
JTN-5203	3.5	.	1.2	1.0	1.5	1.0	4.0
AG 5335	3.5	.	1.8	2.0	1.0	1.0	3.0
GoSoy 54G16	3.0	.	1.8	2.5	2.0	1.0	2.5
DA0912-07F	4.0	.	1.2	2.5	2.0	1.0	3.0
DA0912-10F	4.0	.	1.2	2.5	2.0	1.0	3.0
DA1037-25F	3.5	.	1.8	2.0	2.5	1.0	2.0
DA1139-031F	3.5	.	1.5	2.5	2.0	1.0	2.0
K13-1830	2.5	.	1.5	2.5	1.0	1.0	2.5
K15-1788	3.0	.	1.8	2.0	1.0	1.5	2.5
K15-1800	3.0	.	1.5	2.0	1.0	1.0	2.0
K15-1809	2.0	.	1.8	2.5	1.0	2.0	2.0
K15-1853	3.5	.	1.5	3.0	1.5	1.5	2.0
K15-1854	4.0	.	2.0	3.0	2.0	2.5	2.0
K15-1855	2.5	.	1.5	2.5	1.0	2.0	2.5
LW13-2096	3.5	.	1.8	3.5	3.0	2.0	4.0
R13-10658	3.5	.	1.5	3.5	2.0	2.0	3.5
R14-356	3.5	.	2.0	3.5	3.0	2.5	3.0
R14-898	3.5	.	2.0	2.5	2.0	2.0	3.0
R14-2893RR	4.0	.	1.8	3.0	2.5	1.5	3.0
R14-14797RR	2.5	.	2.0	2.5	1.5	1.0	4.0
S15-12298C	4.0	.	2.5	4.5	5.0	2.5	4.5
S15-13637C	3.5	.	2.3	4.5	3.0	3.0	5.0
S15-16535C	4.0	.	2.0	3.5	2.5	2.0	4.5
S15-16592C	3.5	.	1.3	1.5	2.0	1.5	4.5
S15-16886C	3.5	.	2.0	3.5	2.5	2.0	3.5
S15-17108C	4.0	.	2.0	3.0	2.0	2.0	3.0
S15-17812C	3.5	.	1.8	3.0	2.5	1.5	3.0
TN13-4304	3.5	.	1.8	2.5	1.5	1.0	2.5
TN15-5012	3.0	.	1.5	2.0	1.0	1.0	2.0
TN16-510	3.5	.	1.8	1.5	1.0	1.0	3.0
TN16-630	2.0	.	2.0	1.5	1.5	1.0	2.5
TN16-5817RR1	3.0	.	1.5	1.0	1.0	1.0	4.0
TN16-5858R1	3.0	.	1.5	2.0	1.5	1.0	2.5
V12-3446	2.0	.	1.8	1.5	1.5	1.0	2.0
V12-4590	3.5	.	1.8	2.0	2.0	1.0	2.0
V13-3833	2.5	.	1.2	2.0	1.0	1.0	2.0
Mean	3.3	.	1.7	2.5	1.8	1.5	2.9
LSD(0.05)	1.6	.	0.5	1.2	0.8	0.7	0.8
CV(%)	23.6	.	14.3	23.5	21.8	22.5	12.9

TABLE 62 - PLANT LODGING (1-5) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	1.0	1.0	1.2	1.4
JTN-5203	1.0	1.0	1.4	1.7
AG 5335	1.0	1.0	1.4	1.7
GoSoy 54G16	1.0	1.0	1.5	1.8
DA0912-07F	1.0	1.0	1.5	1.9
DA0912-10F	1.0	1.0	1.7	1.9
DA1037-25F	2.0	1.0	1.2	1.9
DA1139-031F	2.0	1.0	1.4	1.9
K13-1830	1.0	1.0	1.2	1.6
K15-1788	1.5	1.0	1.5	1.8
K15-1800	1.0	1.0	1.2	1.5
K15-1809	1.0	1.0	1.5	1.6
K15-1853	1.0	1.0	1.2	1.8
K15-1854	1.5	1.0	1.2	2.1
K15-1855	1.5	1.0	1.2	1.7
LW13-2096	3.5	2.3	2.0	2.8
R13-10658	2.5	1.0	1.7	2.4
R14-356	2.0	1.0	1.9	2.5
R14-898	2.0	1.5	2.4	2.3
R14-2893RR	2.0	1.0	2.0	2.3
R14-14797RR	1.5	1.5	1.8	2.0
S15-12298C	2.0	1.5	3.8	3.4
S15-13637C	3.0	2.5	2.4	3.2
S15-16535C	2.0	1.0	1.5	2.6
S15-16592C	1.5	1.0	1.2	2.0
S15-16886C	1.5	1.0	1.7	2.4
S15-17108C	2.0	1.0	1.4	2.3
S15-17812C	1.5	1.0	1.4	2.1
TN13-4304	1.0	1.0	1.4	1.8
TN15-5012	1.0	1.0	1.2	1.5
TN16-510	1.0	1.0	1.2	1.7
TN16-630	1.0	1.0	1.5	1.6
TN16-5817RR1	1.0	1.0	1.5	1.7
TN16-5858R1	1.0	1.0	1.7	1.7
V12-3446	1.0	1.0	1.4	1.5
V12-4590	1.0	1.0	1.5	1.8
V13-3833	1.0	1.0	1.2	1.4
Mean	1.5	1.1	1.6	2.0
LSD(0.05)	1.1	0.4	0.3	0.4
CV(%)	36.1	18.6	10.5	28.5

TABLE 63 - SEED QUALITY (1-5)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	2.0	2.0	1.5	.	3.0	1.0	2.0
JTN-5203	2.0	2.0	2.5	.	3.0	1.0	2.0
AG 5335	2.0	2.0	3.0	.	2.0	1.5	2.0
GoSoy 54G16	2.0	1.5	1.5	.	2.0	1.0	2.0
DA0912-07F	2.0	1.0	1.5	.	3.0	1.0	2.0
DA0912-10F	2.0	1.5	2.0	.	3.0	1.0	2.0
DA1037-25F	2.0	2.0	3.0	.	3.0	2.0	2.0
DA1139-031F	2.0	1.5	2.0	.	3.0	1.0	2.0
K13-1830	2.0	2.0	2.0	.	3.0	1.0	2.0
K15-1788	2.0	1.5	1.5	.	3.0	1.0	2.0
K15-1800	2.0	1.5	1.5	.	3.0	1.5	2.0
K15-1809	2.0	2.0	2.0	.	3.0	1.0	2.0
K15-1853	2.0	2.0	2.5	.	3.0	1.0	2.0
K15-1854	2.0	2.0	2.5	.	3.0	1.5	2.0
K15-1855	2.0	1.5	1.5	.	3.0	1.0	2.0
LW13-2096	2.0	1.5	2.0	.	3.0	2.0	2.0
R13-10658	2.5	1.5	1.5	.	3.0	1.5	2.0
R14-356	2.0	1.5	2.0	.	3.0	1.5	2.0
R14-898	2.0	1.5	2.5	.	3.0	1.5	2.0
R14-2893RR	2.0	1.5	3.0	.	3.0	1.5	2.0
R14-14797RR	2.0	1.5	1.5	.	3.0	1.5	2.0
S15-12298C	2.0	1.5	2.5	.	3.0	1.0	2.0
S15-13637C	2.5	1.5	3.0	.	3.0	1.5	2.0
S15-16535C	2.5	1.5	2.5	.	3.0	2.0	2.0
S15-16592C	2.5	1.5	2.0	.	3.0	2.0	2.0
S15-16886C	2.0	1.5	2.0	.	3.0	1.0	2.0
S15-17108C	2.5	1.5	2.0	.	2.0	1.0	2.0
S15-17812C	2.5	2.0	3.0	.	3.0	1.5	2.0
TN13-4304	2.0	2.0	2.0	.	3.0	1.5	2.0
TN15-5012	2.0	1.5	2.0	.	3.0	1.0	2.0
TN16-510	2.0	1.5	2.0	.	3.0	1.0	2.0
TN16-630	2.0	1.5	2.0	.	3.0	1.5	2.0
TN16-5817RR1	2.0	1.5	2.0	.	3.0	1.0	2.0
TN16-5858R1	2.0	1.5	1.5	.	2.0	1.0	2.0
V12-3446	2.0	2.0	2.0	.	3.0	2.0	2.0
V12-4590	2.5	2.0	2.0	.	3.0	1.5	2.0
V13-3833	2.0	2.0	2.0	.	3.0	1.0	2.0
Mean	2.1	1.7	2.1	.	2.9	1.3	2.0
LSD(0.05)	0.7	.	.	.	.	0.8	.
CV(%)	15.1	.	.	.	.	31.6	.

TABLE 63 - SEED QUALITY (1-5) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	1.5	1.0	1.2	1.7
JTN-5203	2.0	1.2	1.6	1.9
AG 5335	1.5	1.2	1.8	1.9
GoSoy 54G16	2.0	1.0	1.5	1.6
DA0912-07F	1.5	1.0	2.0	1.7
DA0912-10F	1.5	1.0	2.4	1.8
DA1037-25F	2.0	1.5	1.5	2.1
DA1139-031F	1.5	1.0	1.5	1.7
K13-1830	2.0	1.0	1.5	1.8
K15-1788	2.0	1.0	1.3	1.7
K15-1800	1.5	1.0	1.3	1.7
K15-1809	1.5	1.0	1.5	1.8
K15-1853	1.5	1.2	1.3	1.8
K15-1854	2.5	1.0	1.5	2.0
K15-1855	2.0	1.0	1.5	1.7
LW13-2096	1.5	1.8	1.8	2.0
R13-10658	1.5	1.2	1.7	1.9
R14-356	2.0	1.0	1.5	1.8
R14-898	2.0	1.0	2.6	2.0
R14-2893RR	2.0	1.0	1.7	1.9
R14-14797RR	2.0	1.0	2.3	1.9
S15-12298C	2.0	1.5	2.2	2.0
S15-13637C	2.5	1.0	2.6	2.2
S15-16535C	2.0	1.0	1.9	2.1
S15-16592C	2.0	1.0	2.1	2.1
S15-16886C	2.0	1.2	1.3	1.8
S15-17108C	1.5	1.5	1.5	1.8
S15-17812C	1.5	1.0	1.9	2.0
TN13-4304	2.0	1.0	1.7	1.9
TN15-5012	1.5	1.0	1.3	1.7
TN16-510	2.0	1.0	1.5	1.8
TN16-630	2.0	1.0	1.6	1.8
TN16-5817RR1	2.0	1.0	1.6	1.8
TN16-5858R1	2.0	1.0	2.0	1.7
V12-3446	2.5	1.0	1.5	2.0
V12-4590	2.0	1.0	1.8	2.0
V13-3833	1.5	1.0	1.3	1.7
Mean	1.9	1.1	1.7	1.9
LSD(0.05)	.	0.3	0.5	0.3
CV(%)	.	13.0	13.2	17.5

TABLE 64 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	13.3	13.7	13.0	.	11.7	12.4	14.2
JTN-5203	13.3	12.8	15.1	.	13.7	12.6	13.0
AG 5335	14.1	17.0	16.9	.	15.5	15.7	14.3
GoSoy 54G16	14.0	14.6	15.2	.	13.0	11.9	13.0
DA0912-07F	13.5	13.9	14.5	.	13.9	12.9	13.6
DA0912-10F	14.3	15.7	14.7	.	13.2	14.6	13.6
DA1037-25F	13.8	15.4	15.5	.	12.8	14.4	13.9
DA1139-031F	11.9	12.8	11.4	.	11.4	11.5	13.4
K13-1830	13.3	13.5	13.7	.	12.2	13.3	11.9
K15-1788	13.2	13.4	14.3	.	13.2	13.1	14.5
K15-1800	13.0	12.3	12.8	.	11.8	14.3	13.8
K15-1809	14.3	13.7	15.0	.	13.1	13.5	14.6
K15-1853	12.7	12.4	13.9	.	14.0	13.4	12.9
K15-1854	11.8	12.7	13.9	.	13.5	13.3	12.2
K15-1855	13.1	12.8	12.5	.	12.6	12.8	12.1
LW13-2096	15.2	16.1	15.6	.	16.3	15.4	13.4
R13-10658	15.1	15.4	14.0	.	13.2	14.2	14.6
R14-356	12.2	12.5	12.0	.	10.5	13.6	14.2
R14-898	15.8	16.4	16.0	.	14.5	16.4	15.6
R14-2893RR	15.6	16.7	15.5	.	14.8	15.5	15.8
R14-14797RR	16.9	15.0	14.7	.	14.4	14.1	17.1
S15-12298C	14.9	13.5	16.1	.	13.6	13.5	14.5
S15-13637C	15.2	16.5	15.7	.	13.9	14.0	16.5
S15-16535C	15.2	15.6	14.1	.	16.5	16.1	14.6
S15-16592C	14.0	14.9	15.9	.	14.6	16.6	14.4
S15-16886C	12.1	12.5	11.7	.	12.0	12.0	12.0
S15-17108C	13.4	13.9	13.3	.	11.4	13.1	12.6
S15-17812C	14.9	12.7	15.0	.	12.6	14.7	13.9
TN13-4304	14.8	14.9	14.0	.	13.8	17.0	13.7
TN15-5012	12.0	12.6	11.8	.	11.8	12.7	12.1
TN16-510	12.8	11.7	11.2	.	12.2	12.6	12.1
TN16-630	11.6	12.3	10.6	.	10.7	14.0	12.7
TN16-5817RR1	12.8	13.2	12.2	.	11.7	13.0	12.5
TN16-5858R1	13.1	13.0	11.8	.	12.4	12.3	13.2
V12-3446	13.2	12.7	15.5	.	11.8	16.0	13.5
V12-4590	16.1	16.8	18.7	.	16.0	16.5	14.8
V13-3833	13.2	15.0	13.4	.	12.7	14.6	14.0
Mean	13.8	14.1	14.1	.	13.2	14.0	13.8
LSD(0.05)	1.0	.	.	.	.	1.3	.
CV(%)	3.6	.	.	.	.	4.7	.

TABLE 64 - SEED SIZE (GRAMS PER 100 SEED) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	12.5	14.5	12.3	13.1
JTN-5203	12.1	14.3	12.9	13.3
AG 5335	15.3	15.1	16.2	15.5
GoSoy 54G16	14.7	15.5	14.0	13.9
DA0912-07F	15.0	16.6	15.0	14.3
DA0912-10F	15.8	16.7	15.3	14.9
DA1037-25F	14.1	16.6	15.6	14.7
DA1139-031F	12.1	12.9	12.0	12.1
K13-1830	12.7	13.0	12.2	12.8
K15-1788	13.5	15.5	13.8	13.8
K15-1800	13.6	14.5	13.0	13.2
K15-1809	14.0	14.8	12.8	13.9
K15-1853	12.3	16.1	12.8	13.4
K15-1854	12.6	15.5	12.2	13.1
K15-1855	12.4	13.8	12.1	12.7
LW13-2096	15.4	15.7	15.7	15.4
R13-10658	15.2	17.2	14.1	14.8
R14-356	11.5	13.7	12.2	12.5
R14-898	16.4	18.2	16.3	16.2
R14-2893RR	16.7	16.2	16.7	15.9
R14-14797RR	17.4	17.4	15.6	15.8
S15-12298C	13.7	16.8	13.9	14.5
S15-13637C	15.1	16.2	16.0	15.4
S15-16535C	15.8	16.6	14.9	15.5
S15-16592C	14.2	16.6	16.6	15.3
S15-16886C	12.0	13.5	12.6	12.3
S15-17108C	13.1	14.6	12.7	13.1
S15-17812C	14.4	16.8	12.8	14.2
TN13-4304	14.2	17.0	13.9	14.9
TN15-5012	12.5	13.4	12.6	12.4
TN16-510	12.1	14.5	12.0	12.4
TN16-630	11.8	14.2	11.7	12.2
TN16-5817RR1	13.0	15.4	13.0	13.0
TN16-5858R1	12.9	13.7	12.3	12.7
V12-3446	13.3	14.8	14.1	13.9
V12-4590	18.0	19.7	18.3	17.2
V13-3833	13.0	15.6	13.1	13.9
Mean	13.9	15.5	13.9	14.0
LSD(0.05)	.	1.2	1.0	0.8
CV(%)	.	3.8	3.7	6.2

TABLE 65 - OIL (%)†
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	18.7	17.9	17.9	18.5	18.1	18.0	19.0
JTN-5203	19.0	18.4	18.5	19.1	18.6	19.7	19.6
AG 5335	19.8	18.1	18.8	19.3	19.2	20.0	19.5
GoSoy 54G16	19.7	18.8	19.6	18.8	19.2	19.7	20.2
DA0912-07F	18.2	18.3	18.6	17.7	18.8	19.3	19.4
DA0912-10F	18.7	18.1	19.3	18.3	18.5	19.1	19.3
DA1037-25F	19.8	18.2	16.9	18.7	18.2	18.5	19.5
DA1139-031F	19.4	18.2	19.3	18.8	19.2	19.2	19.3
K13-1830	19.3	18.2	18.6	18.3	18.0	18.8	18.9
K15-1788	18.7	17.7	18.3	17.8	18.4	18.9	19.1
K15-1800	18.4	17.3	18.5	18.1	18.4	19.0	19.1
K15-1809	18.5	17.7	18.3	17.6	18.7	18.5	18.9
K15-1853	18.6	17.9	18.2	18.0	18.6	19.2	19.7
K15-1854	18.1	17.0	17.5	17.4	18.2	19.0	18.7
K15-1855	19.0	17.3	17.9	17.2	17.8	18.2	18.9
LW13-2096	19.3	18.0	18.1	18.3	18.5	18.6	18.3
R13-10658	19.2	18.0	18.4	18.3	19.1	18.9	20.2
R14-356	19.7	18.6	19.1	18.6	18.4	19.1	19.6
R14-898	19.4	18.6	18.7	18.8	19.5	19.3	19.7
R14-2893RR	19.1	18.9	19.3	18.9	19.2	19.1	20.0
R14-14797RR	19.0	18.8	18.4	18.2	.	18.3	19.0
S15-12298C	19.6	18.8	18.6	18.3	.	18.8	20.2
S15-13637C	19.7	19.2	19.6	18.7	.	19.8	20.0
S15-16535C	21.2	20.6	19.7	20.3	.	20.9	21.1
S15-16592C	20.1	19.4	19.1	19.8	19.4	19.8	20.3
S15-16886C	20.1	19.5	18.9	18.7	19.0	19.4	19.8
S15-17108C	18.9	18.5	18.5	18.6	18.8	19.5	19.6
S15-17812C	19.7	18.8	18.8	19.0	19.1	19.3	20.5
TN13-4304	19.1	18.0	18.8	18.2	18.3	18.3	19.3
TN15-5012	18.4	17.8	18.3	17.8	18.2	18.7	19.4
TN16-510	18.5	17.9	18.3	18.1	18.5	18.6	19.3
TN16-630	19.1	17.9	18.3	18.4	18.5	18.5	19.2
TN16-5817RR1	18.8	18.7	18.9	18.7	18.4	18.9	19.7
TN16-5858R1	19.7	18.6	18.9	18.8	19.3	19.6	19.6
V12-3446	19.3	18.8	18.4	19.0	.	19.0	19.9
V12-4590	20.4	19.3	18.4	19.2	.	19.1	20.4
V13-3833	19.3	18.4	18.6	18.4	.	19.0	19.7
Mean	19.2	18.4	18.6	18.5	18.7	19.1	19.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 65 - OIL (%)† (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	18.4	19.2	17.9	18.4
JTN-5203	18.7	20.1	18.8	19.1
AG 5335	19.7	21.4	19.4	19.5
GoSoy 54G16	19.0	20.1	18.7	19.4
DA0912-07F	18.5	18.9	18.6	18.6
DA0912-10F	18.3	19.2	18.3	18.7
DA1037-25F	19.2	18.6	18.0	18.5
DA1139-031F	19.8	20.1	18.5	19.2
K13-1830	19.0	19.8	18.2	18.7
K15-1788	18.8	19.5	17.8	18.5
K15-1800	18.6	19.3	17.9	18.4
K15-1809	18.8	19.5	17.7	18.4
K15-1853	17.4	18.8	18.8	18.5
K15-1854	17.8	18.8	17.4	18.0
K15-1855	17.6	19.3	18.0	18.1
LW13-2096	18.6	19.3	18.0	18.5
R13-10658	19.0	19.4	18.3	18.9
R14-356	19.2	20.1	18.1	19.0
R14-898	18.9	19.1	18.9	19.1
R14-2893RR	18.6	20.6	18.8	19.2
R14-14797RR	18.2	19.8	17.7	18.6
S15-12298C	19.0	19.8	18.0	19.0
S15-13637C	19.9	20.2	19.0	19.5
S15-16535C	20.6	21.8	20.4	20.7
S15-16592C	20.2	19.6	19.3	19.7
S15-16886C	20.0	20.5	18.5	19.4
S15-17108C	19.0	19.2	19.0	18.9
S15-17812C	19.7	20.1	18.4	19.3
TN13-4304	18.8	18.5	17.8	18.5
TN15-5012	18.3	18.9	17.5	18.3
TN16-510	16.9	19.7	17.9	18.4
TN16-630	18.9	19.3	18.0	18.6
TN16-5817RR1	19.2	28.7	18.2	19.8
TN16-5858R1	20.1	21.3	18.5	19.4
V12-3446	16.6	21.0	19.3	19.0
V12-4590	18.9	19.5	18.0	19.2
V13-3833	18.7	19.8	17.7	18.8
Mean	18.8	20.0	18.4	18.9
LSD(0.05)	.	.	.	0.6
CV(%)	.	.	.	3.3

TABLE 66 - PROTEIN (%)†
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	34.1	35.6	36.5	35.2	34.8	34.6	34.8
JTN-5203	35.7	35.7	37.3	35.3	36.2	33.5	34.4
AG 5335	34.1	37.4	38.9	35.1	34.7	33.6	36.4
GoSoy 54G16	32.6	33.7	33.2	35.0	32.3	32.1	32.7
DA0912-07F	36.2	36.0	36.8	37.1	35.4	35.7	35.3
DA0912-10F	36.2	36.3	34.8	36.0	34.8	35.5	34.8
DA1037-25F	34.0	35.8	37.6	34.5	36.4	35.7	34.1
DA1139-031F	34.9	36.0	35.2	35.6	34.7	34.8	36.3
K13-1830	34.0	35.3	35.4	35.1	35.2	34.7	34.2
K15-1788	36.4	37.3	38.3	37.7	36.9	36.4	35.6
K15-1800	36.9	37.3	36.8	37.3	36.6	36.4	36.1
K15-1809	36.9	36.9	37.4	37.4	36.5	36.9	35.7
K15-1853	34.8	35.1	35.6	35.5	33.5	34.5	35.0
K15-1854	34.6	36.1	36.4	35.4	35.3	34.0	34.7
K15-1855	35.1	36.1	35.4	36.8	35.4	35.1	35.2
LW13-2096	35.8	37.0	37.4	37.9	36.8	36.6	35.1
R13-10658	35.0	35.5	35.9	35.0	34.0	35.4	34.5
R14-356	33.9	33.8	35.1	35.7	35.1	34.8	34.4
R14-898	34.4	35.1	36.1	36.0	33.2	34.7	33.9
R14-2893RR	35.1	35.1	35.2	35.4	34.3	35.3	34.5
R14-14797RR	35.5	34.4	36.4	36.2	.	36.0	35.1
S15-12298C	33.8	34.6	35.1	35.7	.	34.7	33.4
S15-13637C	34.2	34.6	34.8	35.9	.	34.7	35.2
S15-16535C	33.4	34.4	36.8	34.8	.	33.0	32.7
S15-16592C	34.0	34.7	36.8	34.2	34.7	34.4	34.6
S15-16886C	35.5	34.7	35.7	35.5	34.6	33.6	34.2
S15-17108C	35.4	35.3	36.8	35.6	35.1	34.4	34.4
S15-17812C	35.6	35.3	35.5	34.4	34.1	33.9	35.1
TN13-4304	36.2	37.2	36.4	37.2	36.3	37.3	34.6
TN15-5012	37.5	37.6	38.1	38.2	37.3	36.6	36.8
TN16-510	35.1	35.2	35.8	35.2	34.5	34.9	34.3
TN16-630	35.1	35.3	35.5	35.3	34.5	35.4	34.4
TN16-5817RR1	34.7	34.6	35.3	35.0	35.0	34.5	33.2
TN16-5858R1	33.5	34.6	33.9	33.9	33.5	33.2	33.5
V12-3446	35.6	34.5	37.5	35.3	.	35.3	35.7
V12-4590	35.9	36.9	39.2	37.8	.	37.1	36.3
V13-3833	34.4	34.8	36.0	35.7	.	34.7	34.3
Mean	35.0	35.6	36.2	35.8	35.0	35.0	34.7
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 66 - PROTEIN (%)† (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	34.6	34.5	34.5	34.9
JTN-5203	35.1	34.4	34.4	35.2
AG 5335	33.7	31.7	35.3	35.1
GoSoy 54G16	33.8	32.6	33.3	33.1
DA0912-07F	35.7	35.9	35.0	35.9
DA0912-10F	35.5	35.3	35.0	35.4
DA1037-25F	34.4	35.3	35.8	35.4
DA1139-031F	34.5	34.6	35.1	35.2
K13-1830	33.9	33.2	34.6	34.6
K15-1788	35.5	37.0	36.8	36.8
K15-1800	36.4	37.0	36.7	36.8
K15-1809	36.0	35.7	37.1	36.6
K15-1853	36.1	34.7	33.9	34.9
K15-1854	34.2	34.8	35.1	35.1
K15-1855	35.3	34.0	35.2	35.4
LW13-2096	35.3	35.0	36.9	36.4
R13-10658	35.3	34.7	34.7	35.0
R14-356	33.9	33.9	34.7	34.5
R14-898	34.4	33.2	34.8	34.6
R14-2893RR	34.9	33.4	34.9	34.8
R14-14797RR	36.2	33.9	36.5	35.6
S15-12298C	34.3	33.9	35.3	34.5
S15-13637C	33.3	35.1	35.1	34.7
S15-16535C	34.1	32.5	34.3	34.0
S15-16592C	31.4	35.8	34.6	34.5
S15-16886C	34.0	32.9	35.4	34.6
S15-17108C	34.6	35.4	33.9	35.1
S15-17812C	34.3	35.2	34.0	34.7
TN13-4304	35.9	37.1	36.6	36.5
TN15-5012	37.5	37.1	37.5	37.4
TN16-510	39.1	33.4	35.0	35.2
TN16-630	34.2	34.3	35.3	34.9
TN16-5817RR1	34.4	23.9	34.9	33.5
TN16-5858R1	32.8	30.6	34.1	33.4
V12-3446	37.8	32.4	34.1	35.4
V12-4590	37.8	36.8	37.4	37.2
V13-3833	35.2	34.3	34.9	34.9
Mean	35.0	34.2	35.2	35.2
LSD(0.05)	.	.	.	0.8
CV(%)	.	.	.	2.7

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST V-EARLY 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
Ellis	11.0	3.8	19.0	58.0	8.4
JTN-5203	13.0	3.6	22.0	54.0	8.1
AG 5335	11.0	3.9	22.0	56.0	7.3
GoSoy 54G16	11.0	3.5	24.0	53.0	7.7
S15-17812C	7.0	3.3	84.0	1.9	3.6
Mean	11.0	3.6	34.0	45.0	7.0
LSD(0.05)	0.2	0.2	2.2	1.9	0.4
CV(%)	1.7	7.0	7.3	4.6	6.9

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS
Ellis	11.2	11.0	11.2	11.5	10.9	10.9	11.4
JTN-5203	12.8	13.0	12.3	12.9	12.3	12.3	12.5
AG 5335	11.7	11.3	10.9	11.4	11.2	11.4	11.2
GoSoy 54G16	11.5	11.4	11.2	11.4	11.1	11.1	11.2
S15-17812C	6.9	7.0	6.7	6.9	6.7	6.8	7.4
Mean	10.8	10.8	10.5	10.8	10.5	10.5	10.7
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED STEARIC ACID (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS
Ellis	3.7	3.6	3.6	3.5	4.9	4.2	3.5
JTN-5203	3.5	3.2	3.5	3.9	3.8	3.8	3.1
AG 5335	3.9	3.7	3.5	3.9	4.2	4.2	4.3
GoSoy 54G16	3.7	3.6	3.3	3.7	3.8	3.9	2.7
S15-17812C	3.4	3.1	3.3	3.5	4.1	3.6	3.1
Mean	3.6	3.4	3.4	3.7	4.2	3.9	3.3
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED PALMITIC ACID (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	11.1	11.7	11.3	11.2
JTN-5203	12.7	13.0	12.6	12.6
AG 5335	11.0	11.6	11.0	11.3
GoSoy 54G16	11.3	11.6	10.9	11.3
S15-17812C	7.2	7.5	6.6	7.0
Mean	10.7	11.1	10.5	10.7
LSD(0.05)	.	.	.	0.2
CV(%)	.	.	.	1.7

SEED STEARIC ACID (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
Ellis	3.6	3.7	3.7	3.8
JTN-5203	3.4	3.6	3.9	3.6
AG 5335	3.8	3.6	3.8	3.9
GoSoy 54G16	3.5	3.1	3.9	3.5
S15-17812C	2.9	3.0	3.5	3.3
Mean	3.4	3.4	3.8	3.6
LSD(0.05)	.	.	.	0.2
CV(%)	.	.	.	7.0

SEED OLEIC ACID (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS
Ellis	17.2	17.5	22.7	17.3	20.3	19.3	17.3
JTN-5203	19.5	19.7	26.7	21.1	22.1	21.7	21.9
AG 5335	19.4	21.2	29.0	17.1	22.2	19.7	15.6
GoSoy 54G16	21.1	24.3	26.4	22.4	22.1	23.7	27.3
S15-17812C	85.6	86.2	83.6	85.1	81.4	81.4	86.2
Mean	32.6	33.8	37.7	32.6	33.6	33.2	33.7
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS
Ellis	58.8	59.5	54.9	58.5	55.4	57.0	60.6
JTN-5203	55.1	55.7	50.4	53.9	53.7	54.0	56.1
AG 5335	57.5	57.0	50.1	59.3	54.6	56.9	61.4
GoSoy 54G16	55.3	52.9	52.0	54.0	54.2	53.4	53.4
S15-17812C	0.5	0.6	2.9	0.6	3.4	4.0	0.6
Mean	45.4	45.1	42.1	45.2	44.3	45.1	46.4
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(A)	Stoneville, MS
Ellis	9.0	8.4	7.6	9.2	8.5	8.6	7.2
JTN-5203	9.1	8.5	7.1	8.2	8.1	8.1	6.3
AG 5335	7.6	6.8	6.5	8.3	7.8	7.9	7.5
GoSoy 54G16	8.4	7.8	7.1	8.5	8.7	7.9	5.5
S15-17812C	3.6	3.1	3.5	4.0	4.4	4.2	2.8
Mean	7.5	6.9	6.4	7.6	7.5	7.3	5.8
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED OLEIC ACID (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	17.5	18.9	19.0	18.7
JTN-5203	19.0	22.7	21.6	21.6
AG 5335	22.6	20.5	28.9	21.6
GoSoy 54G16	23.8	27.0	25.4	24.3
S15-17812C	86.1	83.9	81.6	84.1
Mean	33.8	34.6	35.3	34.1
LSD(0.05)	.	.	.	2.2
CV(%)	.	.	.	7.3

SEED LINOLEIC ACID (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	59.1	58.2	56.6	57.9
JTN-5203	56.0	53.9	52.3	54.1
AG 5335	55.5	57.7	48.7	55.9
GoSoy 54G16	53.5	51.7	51.5	53.2
S15-17812C	0.5	2.6	3.6	1.9
Mean	44.9	44.8	42.6	44.6
LSD(0.05)	.	.	.	1.9
CV(%)	.	.	.	4.6

SEED LINOLENIC ACID (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
Ellis	8.7	7.5	9.4	8.4
JTN-5203	8.8	6.8	9.6	8.1
AG 5335	7.0	6.5	7.6	7.3
GoSoy 54G16	7.8	6.6	8.4	7.7
S15-17812C	3.3	3.0	4.6	3.6
Mean	7.1	6.1	7.9	7.0
LSD(0.05)	.	.	.	0.4
CV(%)	.	.	.	6.9

SUMMARY OF SEED SUGARS(%)†
PRELIMINARY TEST V-EARLY 2017

STRAIN/ VARIETY	Sucrose	Raffinose	Stachyose	Total Sugar
Ellis	4.5	1.6	3.4	9.5
JTN-5203	3.3	1.2	3.8	8.3
AG 5335	4.0	1.3	3.2	8.5
GoSoy 54G16	3.8	1.3	3.3	8.4
R13-10658	8.6	0.5	0.6	9.6
V12-4590	6.4	0.6	0.4	7.4
Mean	5.1	1.1	2.5	8.6
LSD(0.05)	0.9	0.3	0.5	1.4
CV(%)	19.0	25.0	20.0	17.0

† Seed sugar percentage reported beginning in 2017.

SEED SUCROSE(%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	3.7	5.0	3.0	4.6	4.4	4.5	5.2
JTN-5203	2.7	3.7	2.5	2.9	3.6	3.2	3.1
AG 5335	3.8	4.0	2.4	5.0	5.1	3.0	2.6
GoSoy 54G16	4.0	4.0	3.2	5.1	1.6	2.9	3.9
R13-10658	9.5	8.5	6.8	.	10.8	5.6	7.2
V12-4590	6.1	7.4	4.4	7.8	7.6	7.0	3.7
Mean	5.0	5.4	3.7	5.1	5.5	4.3	4.3
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED RAFFINOSE(%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	1.6	1.6	0.9	1.6	1.5	1.5	2.0
JTN-5203	1.3	1.4	0.8	1.3	1.2	0.9	1.3
AG 5335	1.5	1.3	0.8	1.8	1.2	0.8	1.1
GoSoy 54G16	1.9	1.2	0.9	1.7	0.5	0.9	1.4
R13-10658	0.5	0.3	0.5	.	0.8	0.2	0.9
V12-4590	1.3	0.5	0.5	0.6	0.6	0.3	0.8
Mean	1.4	1.0	0.7	1.4	0.9	0.8	1.2
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED SUCROSE(%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Warsaw, VA*	*Test Mean*
Ellis	4.9	5.7	4.5
JTN-5203	4.2	4.1	3.3
AG 5335	4.6	5.5	4.0
GoSoy 54G16	4.0	5.2	3.8
R13-10658	8.9	11.1	8.6
V12-4590	5.3	8.1	6.4
Mean	5.3	6.6	5.1
LSD(0.05)	.	.	0.9
CV(%)	.	.	19.2

SEED RAFFINOSE(%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Warsaw, VA*	*Test Mean*
Ellis	1.8	1.6	1.6
JTN-5203	1.8	1.2	1.2
AG 5335	1.8	1.2	1.3
GoSoy 54G16	1.5	1.3	1.3
R13-10658	0.3	0.3	0.5
V12-4590	0.5	0.3	0.6
Mean	1.3	1.0	1.1
LSD(0.05)	.	.	0.3
CV(%)	.	.	24.6

SEED STACHYOSE(%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	2.7	3.4	2.9	3.3	3.7	3.4	3.8
JTN-5203	3.7	4.2	3.5	3.1	3.7	3.9	3.5
AG 5335	3.2	3.4	2.7	4.0	3.4	2.1	2.9
GoSoy 54G16	3.4	3.8	3.6	3.8	1.6	2.8	3.2
R13-10658	0.5	0.4	0.6	.	0.6	0.4	1.1
V12-4590	0.5	0.4	0.4	0.4	0.4	0.4	0.7
Mean	2.3	2.6	2.3	2.9	2.2	2.2	2.5
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED TOTAL SUGARS (%)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	Jackson, TN	Keiser, AR	Kinston, NC	Knoxville, TN	Pittsburg, KS	Portageville, MO(B)	Stoneville, MS
Ellis	8.0	9.9	6.8	9.5	9.7	9.5	11.0
JTN-5203	7.7	9.3	6.9	7.3	8.5	7.9	7.8
AG 5335	8.6	8.7	5.9	10.8	9.7	5.9	6.7
GoSoy 54G16	9.3	9.0	7.7	10.6	3.7	6.6	8.4
R13-10658	10.5	9.2	7.9	.	12.2	6.1	9.2
V12-4590	7.9	8.3	5.3	8.8	8.6	7.7	5.2
Mean	8.6	9.1	6.7	9.4	8.7	7.3	8.1
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

SEED STACHYOSE(%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Warsaw, VA*	*Test Mean*
Ellis	3.8	3.8	3.4
JTN-5203	5.0	3.5	3.8
AG 5335	3.9	3.4	3.2
GoSoy 54G16	3.8	4.0	3.3
R13-10658	0.3	0.5	0.6
V12-4590	0.4	0.3	0.4
Mean	2.9	2.6	2.5
LSD(0.05)	.	.	0.5
CV(%)	.	.	19.5

SEED TOTAL SUGARS (%) (continued)
PRELIMINARY GROUP V-EARLY 2017

STRAIN/ VARIETY	*Stuttgart, AR*	*Warsaw, VA*	*Test Mean*
Ellis	10.5	11.1	9.5
JTN-5203	10.9	8.7	8.3
AG 5335	10.3	10.0	8.5
GoSoy 54G16	9.4	10.4	8.4
R13-10658	9.6	11.9	9.6
V12-4590	6.1	8.7	7.4
Mean	9.5	10.1	8.6
LSD(0.05)	.	.	1.4
CV(%)	.	.	16.7

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TABLE 67 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP V-LATE 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	UA 5612	Commercial check	Commercial		Conv	
2	TN11-5140	Hutcheson x TN89-39	Pantalone		Conv	High Protein
3	JTN-5203	R93-171 x Anand	Arelli	F17	Conv	SCN, FLS
4	AG 5335	Commercial check	Commercial		RR2	
5	R11-7999	5002T x R00-2097	Mozzoni	F5	Conv	AA, Meal Protein ? 50%
6	R11-8346	Osage x S00-9980-22	Mozzoni	F5	Conv	AA, Meal Protein ? 50%
7	R11-8397	Osage x V97-1346	Mozzoni	F5	Conv	AA, Meal Protein ? 50%
8	R12-6751RR	R04-1276RR x 5002T	Mozzoni	F5	RR1	
9	SC10-258	SC98-1850 x Manokin	Fallen		Conv	LJ Trait
10	TN12-5523R2	TN02-226 x MON RR2Y	Pantalone		RR2	
11	TN12-5712R2	TN02-226 x MON RR2Y	Pantalone		RR2	
12	TN13-5508R2	5002T x TN09-46,665	Pantalone		RR2	
13	TN13-5745RR1	5601T[4] x TN93-99RR	Pantalone		RR1	
14	TN13-5746RR1	5601T[4] x TN93-99RR	Pantalone		RR1	
15	TN15-5503	TN09-46,128 x TN11-20133	Pantalone		RR2	
16	TN16-5109	JTN-4607 / (NC-Raleigh x (NCC02-20578 x (PI 603452 x PI 283327)))	Pantalone		Conv	
17	UARK-288	R01-332 x [IA3017 x [Osage x (NCC02-20578D1 x (PI603452 x PI 283327)F1)F1]	Mozzoni		Conv	>75% Oleic, <3% Linolenic

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 68 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST V-LATE 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 2	Race 3	Race 5	SC RATING	SC SCORE
UA 5612	53.9	12	10	0	2.0	35	.	5	4	MR	2
TN11-5140	58.9	2	5	7	1.7	37	.	5	5	R	1
JTN-5203	54.6	11	10	0	1.4	31	.	1	1	SS	3
AG 5335	58.8	3	5	-3	1.4	37	.	4	5	R	1
R11-7999	56.9	7	8	5	1.6	34	.	5	4	R	1
R11-8346	57.6	4	7	1	1.3	30	.	5	3	R	1
R11-8397	53.7	13	10	-2	1.3	28	.	5	5	R	1
R12-6751RR	55.6	8	9	2	1.7	33	.	5	5	R	1
SC10-258	51.0	15	13	-2	1.7	35	.	2	5	R	1
TN12-5523R2	59.8	1	5	5	1.8	34	.	5	1	MS	4
TN12-5712R2	57.1	5	7	6	1.5	36	.	4	1	S	5
TN13-5508R2	55.5	9	9	2	1.3	33	.	3	3	S	5
TN13-5745RR1	55.2	10	9	8	1.6	38	.	5	5	SS	3
TN13-5746RR1	57.1	6	8	9	1.5	37	.	5	5	R	1
TN15-5503	50.8	16	12	5	1.9	34	.	5	5	R	1
TN16-5109	51.9	14	11	3	1.7	35	.	5	5	R	1
UARK-288	45.0	17	15	0	1.9	30	.	5	4	R	1
Mean	54.9	.	.	3	1.6	34	.	.	.		.
LSD(0.05)	6.1	.	.	5	.	3	.	.	.		.
CV(%)	11.7	.	.	143	.	9	.	.	.		.

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

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

TABLE 68 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST V-LATE 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
UA 5612	1.9	13.0	35.0	18.8	P	G	T
TN11-5140	1.9	14.9	34.8	19.3	W	G	T
JTN-5203	1.9	13.2	35.1	19.1	W	G	T
AG 5335	1.9	16.0	34.5	19.6	W	G	T
R11-7999	2.0	14.1	36.5	17.8	P	T	T
R11-8346	1.6	14.1	37.0	18.3	P	T	T
R11-8397	1.8	14.2	36.9	17.9	P	T	T
R12-6751RR	1.8	15.5	34.8	19.0	W	G	T
SC10-258	1.9	14.9	35.4	18.8	W	G	T
TN12-5523R2	2.0	12.6	35.5	18.4	P	G	T
TN12-5712R2	1.9	13.2	35.1	18.3	P	T	T
TN13-5508R2	1.8	14.6	33.7	19.2	W	G	T
TN13-5745RR1	2.0	14.6	36.2	18.4	W	G	T
TN13-5746RR1	1.9	14.4	35.3	18.6	W	G	T
TN15-5503	1.6	13.5	35.2	19.2	P	T	T
TN16-5109	1.8	14.0	34.5	19.5	W	T	T
UARK-288	2.2	13.3	34.3	19.4	S	G	T
Mean	1.9	14.1	35.3	18.8			
LSD(0.05)	0.4	1.1	1.2	0.5			
CV(%)	18.6	6.7	2.8	2.2			

TABLE 69 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	*Keiser, AR*	*Kinston, NC*	*Pittsburg, KS*	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
UA 5612	70.9	35.6	42.7	72.6	45.2	56.5	53.9
TN11-5140	71.4	40.7	45.6	77.3	49.8	68.4	58.9
JTN-5203	59.6	34.4	56.0	65.3	47.3	64.9	54.6
AG 5335	70.1	42.4	56.4	73.5	39.4	71.3	58.8
R11-7999	65.9	35.9	54.7	71.1	43.8	69.7	56.9
R11-8346	63.8	41.5	57.1	69.2	47.3	66.8	57.6
R11-8397	63.0	39.7	44.7	76.0	48.2	50.9	53.7
R12-6751RR	64.0	39.6	50.2	72.7	44.7	62.1	55.6
SC10-258	62.2	36.8	39.3	67.5	36.1	64.4	51.0
TN12-5523R2	76.5	44.2	51.3	82.1	43.3	61.3	59.8
TN12-5712R2	70.8	46.0	48.5	78.9	41.8	56.9	57.1
TN13-5508R2	65.1	39.3	56.4	72.6	42.1	57.6	55.5
TN13-5745RR1	64.4	40.7	40.7	78.6	47.9	58.8	55.2
TN13-5746RR1	62.2	41.7	47.0	72.0	56.2	63.3	57.1
TN15-5503	57.2	36.4	47.9	64.9	49.8	48.4	50.8
TN16-5109	68.1	42.3	29.7	67.2	41.0	63.3	51.9
UARK-288	51.8	28.6	31.7	60.5	33.3	64.2	45.0
Mean	65.1	39.2	47.0	71.9	44.6	61.7	54.9
LSD(0.05)	8.2	8.3	8.0	12.2	14.3	12.4	6.1
CV(%)	6.0	9.9	8.0	8.0	15.1	9.5	11.7

TABLE 70 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP V-LATE 2017

STRAIN/ VARIETY	*Keiser, AR*	*Kinston, NC*	*Pittsburg, KS*	*Stuttgart, AR*	*Tallassee, AL*	*Warsaw, VA*	*Test Mean*
UA 5612	.	10/11	10/8	9/29	10/21	10/13	10/10
TN11-5140	.	10	5	6	5	8	7
JTN-5203	.	7	-6	-9	13	-7	0
AG 5335	.	2	-5	-5	0	-4	-3
R11-7999	.	4	8	4	4	8	5
R11-8346	.	0	4	0	4	-1	1
R11-8397	.	1	-1	-3	-2	-2	-2
R12-6751RR	.	4	3	-1	9	-2	2
SC10-258	.	4	-3	-13	12	-7	-2
TN12-5523R2	.	10	4	5	4	4	5
TN12-5712R2	.	10	7	4	4	4	6
TN13-5508R2	.	4	6	0	4	-1	2
TN13-5745RR1	.	10	7	7	7	7	8
TN13-5746RR1	.	11	5	9	14	7	9
TN15-5503	.	10	6	4	7	0	5
TN16-5109	.	5	3	4	0	2	3
UARK-288	.	6	-6	-4	2	0	0
Mean	.	6	2	0	5	1	3
LSD(0.05)	.	4	6	3	6	6	5
CV(%)	.	29	135	320	55	439	143

TABLE 71 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	.	40	43	32	23	36	35
TN11-5140	.	40	45	34	25	41	37
JTN-5203	.	36	40	26	21	33	31
AG 5335	.	43	40	35	32	38	37
R11-7999	.	34	42	31	24	38	34
R11-8346	.	32	35	26	23	34	30
R11-8397	.	32	35	27	22	26	28
R12-6751RR	.	37	40	28	26	35	33
SC10-258	.	41	45	29	29	32	35
TN12-5523R2	.	44	41	31	24	34	34
TN12-5712R2	.	43	46	33	23	36	36
TN13-5508R2	.	36	46	26	23	34	33
TN13-5745RR1	.	42	48	29	31	40	38
TN13-5746RR1	.	45	50	30	24	39	37
TN15-5503	.	37	40	31	25	35	34
TN16-5109	.	40	46	31	25	37	35
UARK-288	.	32	37	29	21	32	30
Mean	.	39	42	30	25	35	34
LSD(0.05)	.	.	4	7	5	5	3
CV(%)	.	.	5	11	9	7	9

TABLE 72 - PLANT LODGING (1-5)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	.	2.0	3.0	2.0	1.3	1.6	2.0
TN11-5140	.	2.0	2.0	2.0	1.0	1.8	1.7
JTN-5203	.	1.5	2.5	1.0	1.0	1.2	1.4
AG 5335	.	1.8	1.0	2.0	1.0	1.1	1.4
R11-7999	.	1.8	1.5	2.0	1.0	1.6	1.6
R11-8346	.	1.5	1.0	2.0	1.0	1.2	1.3
R11-8397	.	1.8	1.5	1.0	1.0	1.2	1.3
R12-6751RR	.	1.5	3.5	1.5	1.0	1.2	1.7
SC10-258	.	1.8	3.0	1.5	1.0	1.2	1.7
TN12-5523R2	.	2.0	2.5	2.0	1.0	1.5	1.8
TN12-5712R2	.	2.0	2.5	1.0	1.0	1.2	1.5
TN13-5508R2	.	1.5	2.0	1.0	1.0	1.2	1.3
TN13-5745RR1	.	2.0	2.0	1.5	1.0	1.6	1.6
TN13-5746RR1	.	2.0	1.5	1.5	1.0	1.5	1.5
TN15-5503	.	1.8	3.5	2.0	1.0	1.4	1.9
TN16-5109	.	2.0	2.5	1.5	1.0	1.4	1.7
UARK-288	.	2.3	2.5	2.5	1.0	1.5	1.9
Mean	.	1.8	2.2	1.6	1.0	1.4	1.6
LSD(0.05)	.	0.4	1.7	0.9	0.2	0.4	0.5
CV(%)	.	11.5	36.0	25.5	8.5	13.9	31.4

TABLE 73 - SEED QUALITY (1-5)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612		2.0	3.0	1.5	1.5	1.8	1.9
TN11-5140	1.5	2.5	3.0	1.0	1.0	2.1	1.9
JTN-5203	2.0	2.5	3.0	1.5	1.0	1.4	1.9
AG 5335	1.5	2.5	3.0	1.5	1.3	1.8	1.9
R11-7999	2.5	2.0	4.0	1.5	1.0	1.4	2.0
R11-8346	1.5	1.5	3.0	1.5	1.0	1.2	1.6
R11-8397	1.5	2.5	3.0	1.5	1.0	1.5	1.8
R12-6751RR	2.0	2.0	3.0	1.5	1.0	1.5	1.8
SC10-258	2.0	2.5	3.0	2.0	1.0	1.2	1.9
TN12-5523R2	1.5	2.5	4.0	1.5	1.0	1.5	2.0
TN12-5712R2		2.5	3.0	1.5	1.0	1.8	1.9
TN13-5508R2	1.5	1.5	4.0	1.5	1.0	1.5	1.8
TN13-5745RR1	1.5	2.0	3.0	2.0	1.0	2.4	2.0
TN13-5746RR1	1.5	2.5	3.0	1.5	1.0	2.0	1.9
TN15-5503	2.0	1.5	2.0	1.5	1.0	1.5	1.6
TN16-5109	1.5	2.0	3.0	2.0	1.0	1.5	1.8
UARK-288	2.0	2.5	4.0	2.0	1.0	1.5	2.2
Mean	1.7	2.2	3.2	1.6	1.0	1.6	1.9
LSD(0.05)	.	.	.	.	0.2	0.4	0.4
CV(%)	.	.	.	.	8.2	12.8	18.6

TABLE 74 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612		13.9	11.0	12.7	15.1	12.0	13.0
TN11-5140	14.7	15.0	13.8	15.7	16.2	13.7	14.9
JTN-5203	13.0	14.7	11.8	11.9	14.9	12.6	13.2
AG 5335	16.7	15.5	16.4	16.1	15.2	16.2	16.0
R11-7999	13.6	14.0	13.5	14.6	14.7	14.0	14.1
R11-8346	15.3	13.9	11.6	14.5	15.8	13.6	14.1
R11-8397	15.6	14.0	12.7	14.3	14.5	14.3	14.2
R12-6751RR	15.3	16.9	13.8	16.4	16.5	14.5	15.5
SC10-258	15.2	17.0	12.9	13.9	16.1	14.4	14.9
TN12-5523R2	12.1	13.6	11.6	13.4	13.7	11.3	12.6
TN12-5712R2		14.1	13.2	13.4	13.7	11.8	13.2
TN13-5508R2	15.1	14.4	12.5	15.4	16.8	13.4	14.6
TN13-5745RR1	13.0	14.7	14.6	16.2	16.1	13.1	14.6
TN13-5746RR1	13.5	14.0	14.3	15.3	16.5	12.7	14.4
TN15-5503	11.7	14.6	12.9	15.6	14.9	11.6	13.5
TN16-5109	13.3	13.5	13.1	14.6	15.3	13.8	14.0
UARK-288	14.2	12.8	11.5	13.3	13.8	14.1	13.3
Mean	14.2	14.5	13.0	14.5	15.3	13.3	14.1
LSD(0.05)	.	.	.	.	1.2	1.2	1.1
CV(%)	.	.	.	.	3.8	4.1	6.7

TABLE 75 - OIL (%)†
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612		18.7	18.7	18.9	19.8	18.4	18.8
TN11-5140	18.7	19.3	19.4	19.4	20.0	19.0	19.3
JTN-5203	18.2	19.0	19.4	19.0	19.9	18.9	19.1
AG 5335	18.7	19.5	19.3	20.1	21.4	18.9	19.6
R11-7999	17.0	17.9	17.7	17.7	18.8	17.7	17.8
R11-8346	17.3	18.3	18.2	17.8	19.2	18.9	18.3
R11-8397	16.9	17.7	18.3	17.6	19.4	17.6	17.9
R12-6751RR	18.4	18.9	19.4	19.2	19.7	18.4	19.0
SC10-258	18.8	18.3	19.3	18.9	19.3	18.4	18.8
TN12-5523R2	17.8	18.0	18.7	17.9	20.1	17.8	18.4
TN12-5712R2		18.3	19.2	18.2	18.5	17.9	18.3
TN13-5508R2	19.2	19.0	19.4	19.2	19.5	18.7	19.2
TN13-5745RR1	18.0	18.5	17.9	18.2	19.4	18.2	18.4
TN13-5746RR1	18.6	18.5	18.5	18.5	19.5	17.9	18.6
TN15-5503	19.0	18.5	19.7	19.1	21.2	18.0	19.2
TN16-5109	19.0	19.4	19.4	19.4	20.8	19.0	19.5
UARK-288	19.2	19.0	18.5	19.8	21.1	18.6	19.4
Mean	18.3	18.6	18.9	18.8	19.9	18.4	18.8
LSD(0.05)	.	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	.	2.2

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

TABLE 76 - PROTEIN (%)†
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612		35.3	35.4	34.1	34.2	35.1	35.0
TN11-5140	36.3	35.0	34.3	34.6	33.6	35.0	34.8
JTN-5203	36.7	36.0	34.0	34.9	34.4	34.9	35.1
AG 5335	36.9	35.5	34.9	33.0	31.6	35.3	34.5
R11-7999	38.1	32.9	36.5	37.7	36.9	37.0	36.5
R11-8346	38.7	36.8	35.8	38.0	37.3	35.6	37.0
R11-8397	38.3	35.4	36.7	37.7	36.1	37.1	36.9
R12-6751RR	35.5	34.9	33.9	35.5	33.7	35.4	34.8
SC10-258	35.8	36.9	34.5	35.8	34.8	34.7	35.4
TN12-5523R2	36.1	37.2	35.8	35.4	33.0	35.5	35.5
TN12-5712R2		36.6	33.9	35.1	33.3	35.8	35.1
TN13-5508R2	33.9	34.5	32.4	34.1	34.1	33.3	33.7
TN13-5745RR1	36.7	36.2	36.7	36.2	35.0	36.2	36.2
TN13-5746RR1	35.5	35.7	35.1	35.5	34.4	35.8	35.3
TN15-5503	34.9	37.7	34.6	34.9	32.3	36.6	35.2
TN16-5109	34.8	35.2	35.2	34.7	33.0	34.4	34.5
UARK-288	36.1	34.0	34.7	33.3	32.5	35.2	34.3
Mean	36.3	35.6	35.0	35.3	34.1	35.5	35.3
LSD(0.05)	.	.	.	.	.	.	1.2
CV(%)	.	.	.	.	.	.	2.8

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

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST V-LATE 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
UA 5612	11.0	3.6	21.0	56.0	8.4
TN11-5140	11.0	3.5	19.0	59.0	8.2
JTN-5203	13.0	3.5	23.0	53.0	7.8
AG 5335	11.0	3.8	24.0	54.0	7.3
R11-7999	13.0	3.9	18.0	58.0	8.2
R11-8346	12.0	3.7	22.0	55.0	7.3
R11-8397	12.0	3.9	20.0	56.0	7.8
UARK-288	7.2	3.3	83.0	3.0	3.4
Mean	11.0	3.7	29.0	49.0	7.3
LSD(0.05)	0.3	0.2	2.7	2.2	0.5
CV(%)	2.3	5.5	8.2	3.9	6.3

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	11.3	11.4	11.0	11.5	11.4	11.4	11.3
TN11-5140	11.3	11.2	11.1	11.3	11.5	11.0	11.2
JTN-5203	13.1	12.0	12.5	12.4	12.9	12.1	12.5
AG 5335	11.3	11.0	11.4	11.2	12.0	10.6	11.2
R11-7999	12.7	12.5	12.3	12.7	12.9	12.2	12.5
R11-8346	12.0	11.7	11.9	12.9	12.1	11.4	12.0
R11-8397	11.7	11.6	11.3	11.9	11.9	11.6	11.7
UARK-288	7.3	7.1	7.0	7.6	7.6	6.7	7.2
Mean	11.3	11.1	11.1	11.4	11.5	10.9	11.2
LSD(0.05)	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	2.3

SEED STEARIC ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	3.5	3.4	3.8	3.4	3.8	3.8	3.6
TN11-5140	3.3	3.2	3.8	3.4	3.4	3.7	3.5
JTN-5203	3.5	3.3	4.0	3.0	3.3	3.9	3.5
AG 5335	3.9	3.3	4.4	3.6	3.7	3.7	3.8
R11-7999	3.9	3.6	4.1	3.9	3.7	4.2	3.9
R11-8346	3.3	3.6	4.2	3.6	3.6	4.0	3.7
R11-8397	3.6	3.7	4.5	3.5	3.9	4.5	3.9
UARK-288	3.3	2.8	4.3	2.7	3.2	3.5	3.3
Mean	3.5	3.4	4.1	3.4	3.6	3.9	3.7
LSD(0.05)	.	.	.	.	.	.	0.2
CV(%)	.	.	.	.	.	.	5.5

SEED OLEIC ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	18.4	21.0	22.8	18.1	23.6	21.4	20.9
TN11-5140	17.7	19.0	19.3	17.1	18.9	19.2	18.5
JTN-5203	20.6	32.0	22.2	19.2	21.8	24.4	23.4
AG 5335	21.2	28.0	23.7	19.2	18.4	30.8	23.5
R11-7999	16.7	19.3	17.9	16.8	16.2	18.7	17.6
R11-8346	23.5	24.3	21.5	17.4	23.8	20.4	21.8
R11-8397	20.3	21.7	20.3	17.6	20.8	21.9	20.4
UARK-288	83.8	84.4	80.7	83.0	83.5	82.8	83.0
Mean	27.8	31.2	28.6	26.1	28.4	29.9	28.7
LSD(0.05)	.	.	.	.	.	.	2.7
CV(%)	.	.	.	.	.	.	8.2

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	58.1	55.9	54.5	58.0	54.0	54.2	55.8
TN11-5140	59.2	58.4	57.7	59.6	58.4	58.3	58.6
JTN-5203	54.4	46.3	53.1	56.6	54.1	52.1	52.8
AG 5335	56.8	50.7	53.0	58.7	58.2	48.0	54.2
R11-7999	58.6	56.5	57.3	58.3	59.1	56.8	57.8
R11-8346	53.9	53.6	55.4	58.1	54.0	56.1	55.2
R11-8397	56.5	55.3	56.1	58.7	56.2	53.9	56.1
UARK-288	2.8	2.5	3.9	3.0	2.6	3.3	3.0
Mean	50.0	47.4	48.9	51.4	49.6	47.8	49.2
LSD(0.05)	.	.	.	.	.	.	2.2
CV(%)	.	.	.	.	.	.	3.9

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	8.7	8.2	7.9	9.0	7.2	9.2	8.4
TN11-5140	8.5	8.2	8.1	8.6	7.8	7.8	8.2
JTN-5203	8.4	6.4	8.1	8.7	7.8	7.5	7.8
AG 5335	7.0	6.9	7.6	7.3	7.7	7.0	7.3
R11-7999	8.1	8.0	8.4	8.2	8.1	8.1	8.2
R11-8346	7.2	6.9	7.1	8.0	6.6	8.1	7.3
R11-8397	7.8	7.7	7.9	8.2	7.2	8.2	7.8
UARK-288	2.9	3.2	4.0	3.6	3.1	3.6	3.4
Mean	7.3	7.0	7.4	7.7	6.9	7.5	7.3
LSD(0.05)	.	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	.	6.3

SUMMARY OF SELECTED SEED AMINO ACIDS (%)†
PRELIMINARY TEST V-LATE 2017

STRAIN/ VARIETY	Cysteine	Lysine	Methionine	Total AA
UA 5612	0.62	2.50	0.55	27.0
TN11-5140	0.68	2.50	0.56	27.2
JTN-5203	0.64	2.50	0.55	27.2
AG 5335	0.62	2.50	0.56	27.6
R11-7999	0.73	2.60	0.59	29.1
R11-8346	0.69	2.60	0.56	29.7
R11-8397	0.65	2.60	0.57	29.1
Mean	0.66	2.50	0.56	28.1
LSD(0.05)	0.02	0.06	0.02	0.8
CV(%)	2.40	1.90	2.70	2.5

†Amino acid percentage reported beginning in 2017.

SEED CYSTEINE (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	0.63	0.61	0.65	0.63	0.60	0.57	0.62
TN11-5140	0.69	0.67	0.68	0.70	0.66	0.65	0.68
JTN-5203	0.64	0.65	0.65	0.67	0.64	0.60	0.64
AG 5335	0.61	0.61	0.62	0.66	0.63	0.60	0.62
R11-7999	0.76	0.75	0.75	0.71	0.72	0.71	0.73
R11-8346	0.69	0.71	0.72	0.70	0.68	0.65	0.69
R11-8397	0.65	0.68	0.65	0.65	0.66	0.62	0.65
Mean	0.67	0.67	0.67	0.67	0.66	0.63	0.66
LSD(0.05)	.	.	.	.	.	.	0.02
CV(%)	.	.	.	.	.	.	2.39

SEED LYSINE (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	2.46	2.51	2.58	2.45	2.30	2.46	2.46
TN11-5140	2.45	2.50	2.49	2.56	2.32	2.52	2.47
JTN-5203	2.39	2.55	2.46	2.51	2.42	2.46	2.46
AG 5335	2.42	2.56	2.48	2.58	2.38	2.53	2.49
R11-7999	2.66	2.60	2.65	2.52	2.52	2.62	2.59
R11-8346	2.62	2.69	2.64	2.63	2.58	2.59	2.62
R11-8397	2.62	2.65	2.60	2.65	2.47	2.65	2.61
Mean	2.52	2.58	2.56	2.56	2.43	2.55	2.53
LSD(0.05)	.	.	.	.	.	.	0.06
CV(%)	.	.	.	.	.	.	1.94

SEED METHIONINE (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	0.54	0.62	0.56	0.53	0.51	0.52	0.55
TN11-5140	0.56	0.63	0.55	0.56	0.54	0.54	0.56
JTN-5203	0.52	0.62	0.53	0.55	0.53	0.52	0.55
AG 5335	0.53	0.63	0.55	0.57	0.54	0.54	0.56
R11-7999	0.60	0.61	0.59	0.56	0.57	0.58	0.59
R11-8346	0.56	0.60	0.57	0.56	0.55	0.54	0.56
R11-8397	0.57	0.60	0.57	0.58	0.56	0.56	0.57
Mean	0.55	0.62	0.56	0.56	0.54	0.54	0.56
LSD(0.05)	.	.	.	.	.	.	0.02
CV(%)	.	.	.	.	.	.	2.71

SEED TOTAL AMINO ACID (%)
PRELIMINARY GROUP V-LATE 2017

STRAIN/ VARIETY	Keiser, AR	Kinston, NC	Pittsburg, KS	Stuttgart, AR	Tallassee, AL	Warsaw, VA	Test Mean
UA 5612	26.84	27.96	28.14	26.57	25.39	26.87	26.96
TN11-5140	26.91	28.09	26.89	28.29	25.79	27.46	27.24
JTN-5203	26.04	28.80	26.65	27.68	27.45	26.66	27.21
AG 5335	26.75	28.65	27.18	28.53	26.43	27.97	27.58
R11-7999	30.08	29.27	29.58	28.13	28.68	29.09	29.14
R11-8346	29.75	30.76	29.21	29.64	29.63	28.95	29.66
R11-8397	29.57	29.81	28.57	29.78	27.71	29.27	29.12
Mean	27.99	29.05	28.03	28.37	27.30	28.04	28.13
LSD(0.05)	.	.	.	.	.	.	0.82
CV(%)	.	.	.	.	.	.	2.48

INTENTIONALLY BLANK

TABLE 77 - PARENTAGE OF ENTRIES
UNIFORM GROUP VI 2017

Ent	*Strain/Variety*	*Parentage*	*Source*	*Fn*	*Trans-genic†*	*Special Traits‡*
1	AG6534	Commercial check	Commercial		RR1	
2	NC-Dunphy	MD99-6226 x N97-9677	Carter		Conv	Diversity
3	NC-ROY	Holladay x Brim	Carter		Conv	
4	NC-Dilday	N99-8137 x TN99-117	Carter		Conv	Diversity
5	G12-1475R2	G00-3880(4) x RR2Y	Li	F5d	RR2	
6	G13-2842R2	R01-2346 x (G00-3880 x RR2Y)	Li	F7d	RR2	High Protein or Oil
7	G13-2947R2	R98-209 x (G00-3880 x RR2Y)	Li	F7d	RR2	
8	N06-19	N99-58 x SC97-318	Mian	F4	Conv	Diversity, 12.5% exotic
9	N08-174	N99-186 x TN99-117	Mian	F4	Conv	Yield
10	N10-687	NTCPR01-163 x N03-832	Mian	F4	Conv	Diversity, 25% exotic
11	N10-7187	NC-Roy x 408337-BB	Carter	F4	Conv	Diversity, 50% exotic
12	N11-340	N05-741 x N05-196	Mian	F4	Conv	Yield
13	N11-352	N05-741 x N05-196	Mian	F4	Conv	Yield
14	N11-7089	NC-Roy x LD00-3309	Carter	F4	Conv	Midwestern pedigree
15	N11-8508	NC-Roy x PI 417021	Carter	F4	Conv	Diversity, 50% exotic
16	N11-9519	Young x N02-8718	Carter	F4	Conv	Diversity, 25% exotic
17	R11-171	5002T x R01-2346	Mozzoni	F5	Conv	
18	R13-907	R05-235 x R02-3065	Mozzoni	F4	Conv	
19	R13-14007	S07-2680 x R08-409	Mozzoni	F4	Conv	
20	R13-14575RR	R07-6614RR x LEO 3140-07	Mozzoni	F4	RR1	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 78 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST VI 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
AG6534	15	12	51.3	52.1	53.4	36.8	36.8	36.5	18.7	18.9	18.9
NC-Dunphy	7	10	53.6	.	57.2§	33.8	.	34.2	19.4	.	19.6
NC-ROY	16	13	51.1	52.8	52.7	36.5	36.8	36.4	18.4	18.4	18.4
NC-Dilday	12	11	51.9	.	56.4	33.2	.	33.3	19.9	.	20.2
G12-1475R2	2	6	58.2	57.0	.	33.8	34.3	.	19.5	19.5	.
G13-2842R2	1	6	58.8	.	.	35.7	.	.	18.6	.	.
G13-2947R2	14	11	51.5	.	.	33.9	.	.	19.7	.	.
N06-19	6	8	53.8	53.2	53.5	35.4	35.9	35.7	19.5	19.6	19.6
N08-174	5	8	55.0	58.2	59.1	34.6	35.0	34.7	19.2	19.2	19.3
N10-687	4	10	55.2	.	.	36.6	.	.	18.1	.	.
N10-7187	13	12	51.6	54.3	.	36.6	37.0	.	18.3	18.3	.
N11-340	8	9	52.9	52.6	.	34.5	34.6	.	19.8	20.1	.
N11-352	3	8	55.5	55.1	.	33.6	34.3	.	20.3	20.3	.
N11-7089	17	13	50.8	52.3	.	36.3	36.8	.	18.3	18.4	.
N11-8508	18	12	50.7	53.4	54.0	36.4	36.9	36.6	18.6	18.4	18.4
N11-9519	20	15	49.1	.	.	36.9	.	.	19.0	.	.
R11-171	10	11	52.2	54.9	56.8	34.8	34.7	34.7	19.2	19.8	19.7
R13-907	9	11	52.7	.	.	35.1	.	.	19.5	.	.
R13-14007	19	11	50.4	.	.	37.1	.	.	18.8	.	.
R13-14575RR	11	11	52.0	.	.	34.1	.	.	18.7	.	.
Mean	.	.	52.9	.	.	35.3	.	.	19.1	.	.
LSD(0.05)	.	.	6.4	.	.	1.1	.	.	0.5	.	.
CV(%)	.	.	14.8	.	.	2.6	.	.	2.4	.	.

† Data not included in mean: 2017 - Stoneville, MS
2016 - Belle Mina, AL; Bossier City, LA; Stoneville, MS; Tallassee, AL(A)
2015 - Tallassee, AL(A); Bossier City, LA

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

§ The 2015-2017 yield for NC-Dunphy represents the mean of 2015 and 2017 because this line was not in the 2016 Test.

TABLE 79 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST VI 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AG6534	0	1.4	30	1.5	14.5	P	T	T
NC-Dunphy	1	1.7	27	1.7	17.6	P	G	T
NC-ROY	1	2.5	35	1.4	13.5	W	G	Br
NC-Dilday	4	2.4	33	1.9	18.4	P	G	Br
G12-1475R2	3	2.0	34	1.3	15.6	P	T	T
G13-2842R2	3	1.9	34	1.3	15.5	W	T	T
G13-2947R2	2	2.5	36	1.6	14.3	P	T	T
N06-19	0	2.3	33	1.7	15.1	P	G	T
N08-174	0	2.2	32	1.7	16.5	P	G	T
N10-687	-1	1.4	30	1.3	12.9	P	T	Br
N10-7187	0	2.7	34	1.4	13.5	W	G	Br
N11-340	-1	1.4	27	1.5	14.2	W	G	Br
N11-352	0	1.5	28	1.3	13.3	W	G	Br
N11-7089	0	2.7	35	1.5	14.0	W	G	Br
N11-8508	1	2.9	35	1.5	14.2	W	G	Br
N11-9519	1	2.8	38	1.5	17.9	W	G	T
R11-171	-2	1.8	30	1.7	15.6	W	G	T
R13-907	-2	1.9	30	1.8	19.0	P	G	T
R13-14007	0	2.2	36	1.8	17.4	W	T	Br
R13-14575RR	-1	2.0	37	1.6	13.9	P	G	T
Mean	0	2.1	33	1.6	15.3			
LSD(0.05)	3	0.5	3	0.3	0.9			
CV(%)	1209	37.0	12	26.0	7.6			

TABLE 80 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST VI 2017

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			PRK GA	SRK GA	SC RATING	SC SCORE
	Race 1	Race 3	Race 5				
AG6534	.	4	5	2.1	1.0	SS	3.0
NC-Dunphy	.	2	4	3.8	5.1	R	1.0
NC-ROY	.	4	5	4.3	5.0	SS	3.0
NC-Dilday	.	4	5	2.8	5.0	R	1.0
G12-1475R2	.	4	4	1.3	1.0	S	5.0
G13-2842R2	.	4	4	1.5	1.0	SS	3.0
G13-2947R2	.	4	3	1.6	1.0	SS	3.0
N06-19	.	2	5	2.7	1.1	SS	3.0
N08-174	.	4	5	2.8	4.8	R	1.0
N10-687	.	5	5	1.3	2.0	SS	3.0
N10-7187	.	5	5	2.7	5.0	MS	4.0
N11-340	.	4	5	2.5	5.0	R	1.0
N11-352	.	4	5	2.5	4.8	R	1.0
N11-7089	.	4	5	2.3	5.0	MS	4.0
N11-8508	.	4	5	2.0	4.8	MS	4.0
N11-9519	.	5	5	2.0	1.0	R	1.0
R11-171	.	5	5	1.0	1.0	MS	4.0
R13-907	.	5	5	2.2	1.0	R	1.0
R13-14007	.	4	3	1.4	1.0	R	1.0
R13-14575RR	.	5	5	2.0	5.0	MR	2.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 81 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS †
AG6534	73.8	49.0	44.0	49.5	28.8	44.5	36.3
NC-Dunphy	74.0	54.0	54.4	63.4	25.0	41.0	40.6
NC-ROY	71.2	52.8	42.1	49.7	33.6	42.9	31.7
NC-Dilday	72.7	52.6	43.6	54.9	25.6	44.0	43.7
G12-1475R2	70.0	61.6	55.1	61.2	54.3	40.5	33.8
G13-2842R2	63.1	57.3	60.9	62.1	58.9	48.0	33.1
G13-2947R2	59.0	46.5	46.7	51.3	46.8	46.8	20.7
N06-19	66.3	59.5	54.2	58.7	21.8	45.0	38.8
N08-174	74.1	59.3	41.7	59.1	28.0	46.5	40.5
N10-687	69.9	46.4	46.5	54.0	51.6	43.7	20.6
N10-7187	63.3	54.6	46.7	49.1	40.1	41.3	32.5
N11-340	77.9	38.5	46.8	64.8	24.7	43.5	30.2
N11-352	78.3	36.1	46.4	54.8	44.7	51.1	30.3
N11-7089	69.8	58.0	43.0	46.1	37.7	46.1	31.1
N11-8508	73.9	57.9	38.8	39.4	38.7	45.4	34.5
N11-9519	57.7	46.4	46.7	43.9	47.6	40.0	24.4
R11-171	72.4	57.8	47.2	64.4	21.5	39.4	41.8
R13-907	70.5	55.5	47.3	56.4	32.8	36.4	55.0
R13-14007	65.3	60.7	49.2	56.4	13.2	36.2	34.8
R13-14575RR	65.0	58.0	48.0	60.5	37.9	33.1	35.6
Mean	69.4	53.1	47.5	55.0	35.7	42.8	34.5
LSD(0.05)	8.6	9.5	6.6	8.8	6.2	6.7	13.8
CV(%)	7.5	10.8	8.4	9.4	10.6	9.0	24.3

† Data not included in the mean: Stoneville, MS

TABLE 81 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	65.8	45.2	60.4	51.3
NC-Dunphy	78.9	39.3	52.1	53.6
NC-ROY	60.7	47.1	59.7	51.1
NC-Dilday	73.6	44.4	55.8	51.9
G12-1475R2	67.6	50.8	62.6	58.2
G13-2842R2	65.7	50.0	63.1	58.8
G13-2947R2	59.7	52.3	55.7	51.5
N06-19	74.7	52.9	50.8	53.8
N08-174	73.2	49.2	64.3	55.0
N10-687	65.4	54.3	65.0	55.2
N10-7187	59.0	49.8	60.2	51.6
N11-340	66.1	51.7	61.7	52.9
N11-352	71.8	48.1	68.5	55.5
N11-7089	55.4	42.7	58.2	50.8
N11-8508	57.7	41.9	62.4	50.7
N11-9519	62.4	42.6	54.5	49.1
R11-171	73.0	45.6	48.2	52.2
R13-907	72.1	48.0	55.6	52.7
R13-14007	74.6	42.7		50.4
R13-14575RR	74.5	39.5	51.1	52.0
Mean	67.6	46.9	58.4	52.9
LSD(0.05)	6.4	9.1	8.1	6.4
CV(%)	5.8	11.5	8.4	14.8

† Data not included in the mean: Stoneville, MS

TABLE 82 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	10/14	10/5	10/29	10/25	11/2	10/22	9/30
NC-Dunphy	0	-3	2	0	13	-9	4
NC-ROY	10	-10	0	0	4	0	4
NC-Dilday	13	-7	0	3	18	2	3
G12-1475R2	11	6	1	0	0	0	8
G13-2842R2	10	6	-2	2	0	0	9
G13-2947R2	10	1	-2	1	2	0	5
N06-19	-4	-9	0	0	18	-5	2
N08-174	4	-8	1	0	8	0	1
N10-687	4	-7	0	0	-5	0	3
N10-7187	11	-8	-2	1	-1	-1	6
N11-340	1	-10	-2	0	6	-1	4
N11-352	12	-10	-5	0	0	0	1
N11-7089	4	-10	0	1	9	0	2
N11-8508	10	-8	1	0	0	0	3
N11-9519	12	0	-3	3	-2	1	6
R11-171	-1	-6	2	3	6	-8	-11
R13-907	-1	-6	-2	3	8	-3	-10
R13-14007	-5	-3	0	-1	4	1	5
R13-14575RR	0	-8	-2	1	3	1	0
Mean	5	-5	-1	1	4	-1	2
LSD(0.05)	1	6	6	2	12	4	1
CV(%)	13	71	530	120	157	179	33

TABLE 82 - RELATIVE MATURITY (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	10/5	10/28	10/11	10/17
NC-Dunphy	-1	2	-3	1
NC-ROY	-1	-1	-1	1
NC-Dilday	-1	5	3	4
G12-1475R2	-1	-1	2	3
G13-2842R2	-1	-1	2	3
G13-2947R2	-1	2	1	2
N06-19	-1	-1	-6	0
N08-174	-1	3	-4	0
N10-687	-1	-1	-3	-1
N10-7187	-1	-1	-1	0
N11-340	-1	-1	-4	-1
N11-352	-1	-1	-1	0
N11-7089	-1	-2	-1	0
N11-8508	-1	2	0	1
N11-9519	-3	3	-4	1
R11-171	-3	5	-4	-2
R13-907	-3	1	-4	-2
R13-14007	-3	2	.	0
R13-14575RR	-3	3	-5	-1
Mean	-1	1	-2	0
LSD(0.05)	1	4	2	3
CV(%)	53	234	53	1209

TABLE 83 - PLANT HEIGHT (INCHES)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	37	19	37	33	30	31	28
NC-Dunphy	31	22	37	33	29	26	27
NC-ROY	35	26	39	38	41	36	27
NC-Dilday	31	30	37	40	37	37	33
G12-1475R2	38	28	35	41	43	33	29
G13-2842R2	37	27	32	42	40	34	26
G13-2947R2	38	28	39	41	43	40	30
N06-19	37	28	39	40	36	35	28
N08-174	35	29	39	33	33	32	30
N10-687	36	20	35	37	33	33	27
N10-7187	37	23	37	36	36	37	32
N11-340	30	18	40	35	30	25	22
N11-352	30	21	38	33	29	30	23
N11-7089	35	28	39	34	40	35	31
N11-8508	35	35	38	37	40	40	26
N11-9519	42	33	37	39	41	42	33
R11-171	32	25	35	39	30	32	30
R13-907	31	25	35	39	31	31	28
R13-14007	36	35	36	43	39	36	39
R13-14575RR	41	37	39	46	36	36	35
Mean	35	27	37	38	36	34	29
LSD(0.05)	5	7	7	6	10	.	2
CV(%)	9	16	11	10	16	.	3

TABLE 83 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	29	25	29	30
NC-Dunphy	24	19	25	28
NC-ROY	35	30	37	35
NC-Dilday	31	25	30	33
G12-1475R2	33	26	35	34
G13-2842R2	33	28	34	34
G13-2947R2	37	30	35	36
N06-19	28	26	32	33
N08-174	26	25	35	32
N10-687	29	23	31	30
N10-7187	37	30	35	34
N11-340	22	19	24	27
N11-352	29	20	25	28
N11-7089	34	34	33	35
N11-8508	37	33	33	35
N11-9519	39	33	40	38
R11-171	29	21	29	30
R13-907	29	24	25	30
R13-14007	36	27		36
R13-14575RR	38	27	38	37
Mean	32	26	32	33
LSD(0.05)	5	4	2	3
CV(%)	9	9	4	12

TABLE 84 - PLANT LODGING (1-5)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	1.7	1.0	1.0	2.0	1.3	1.5	2.0
NC-Dunphy	1.7	1.0	1.0	2.3	3.3	1.5	2.0
NC-ROY	3.3	1.7	1.3	4.0	2.0	1.8	2.0
NC-Dilday	2.3	3.0	1.0	3.7	3.0	1.5	2.7
G12-1475R2	2.0	1.7	1.0	2.3	3.7	1.5	2.0
G13-2842R2	1.7	1.0	1.0	2.7	3.3	1.8	2.0
G13-2947R2	2.7	1.7	1.3	3.0	5.0	1.5	2.0
N06-19	2.3	1.7	1.3	4.0	3.7	1.5	2.0
N08-174	2.0	2.0	1.0	3.7	2.7	1.5	2.0
N10-687	1.0	1.0	1.0	2.0	2.0	1.5	2.0
N10-7187	3.0	1.7	1.3	4.0	3.3	1.8	2.3
N11-340	1.0	1.0	1.0	2.3	2.0	1.5	2.0
N11-352	1.0	1.0	1.0	3.3	1.0	1.5	2.0
N11-7089	3.0	1.7	1.3	4.0	2.7	2.0	2.7
N11-8508	3.3	2.7	1.7	4.0	3.0	2.0	3.7
N11-9519	2.7	2.7	2.0	4.0	2.7	1.5	3.0
R11-171	1.7	1.0	1.7	3.7	1.7	1.5	2.3
R13-907	2.0	1.0	2.3	4.0	1.0	1.5	2.0
R13-14007	2.0	1.7	1.0	3.0	3.7	1.5	3.3
R13-14575RR	2.0	2.4	1.0	2.7	1.3	1.5	3.0
Mean	2.1	1.6	1.3	3.2	2.6	1.6	2.4
LSD(0.05)	0.6	1.5	0.8	1.0	2.2	0.4	0.5
CV(%)	18.4	55.8	36.4	18.4	51.3	12.3	13.3

TABLE 84 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	1.0	1.0	1.7	1.4
NC-Dunphy	1.3	1.0	1.7	1.7
NC-ROY	2.7	2.0	4.3	2.5
NC-Dilday	2.7	1.7	2.3	2.4
G12-1475R2	2.0	1.2	3.0	2.0
G13-2842R2	1.7	1.2	2.7	1.9
G13-2947R2	2.7	2.0	3.0	2.5
N06-19	1.3	2.2	3.0	2.3
N08-174	2.3	1.3	3.0	2.2
N10-687	1.0	1.0	1.7	1.4
N10-7187	2.7	2.2	5.0	2.7
N11-340	1.0	1.0	1.0	1.4
N11-352	2.0	1.0	1.3	1.5
N11-7089	2.7	2.7	4.7	2.7
N11-8508	3.0	2.2	3.3	2.9
N11-9519	3.0	2.0	4.3	2.8
R11-171	1.3	2.0	1.7	1.8
R13-907	1.3	1.7	2.7	1.9
R13-14007	1.7	1.0		2.2
R13-14575RR	2.0	1.0	3.3	2.0
Mean	2.0	1.6	2.8	2.1
LSD(0.05)	0.9	0.9	1.0	0.5
CV(%)	28.1	33.5	20.4	37.4

TABLE 85 - SEED QUALITY (1-5)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	1.7	1.0	1.5	.	1.3	2.0	2.0
NC-Dunphy	1.7	1.0	1.5	.	2.0	1.5	2.0
NC-ROY	1.3	1.0	1.5	.	1.3	1.5	2.0
NC-Dilday	2.0	1.0	2.0	.	2.7	1.5	2.0
G12-1475R2	1.0	1.0	1.5	.	1.3	1.5	2.0
G13-2842R2	1.0	1.0	1.5	.	1.0	1.5	2.0
G13-2947R2	1.7	1.0	1.5	.	2.0	1.5	2.0
N06-19	1.7	1.0	1.5	.	3.0	1.5	2.0
N08-174	2.7	1.0	1.5	.	2.0	1.5	2.0
N10-687	1.3	1.0	1.5	.	1.0	1.5	2.0
N10-7187	1.3	1.0	1.5	.	1.0	2.0	2.0
N11-340	1.3	1.0	1.5	.	2.0	2.0	2.0
N11-352	1.0	1.0	1.5	.	1.0	1.5	2.0
N11-7089	1.7	1.0	1.5	.	1.3	1.5	2.0
N11-8508	1.7	1.0	1.5	.	1.7	1.5	2.0
N11-9519	1.3	1.0	1.5	.	1.7	2.0	2.0
R11-171	1.7	1.0	1.8	.	2.3	2.0	2.0
R13-907	2.0	1.0	2.5	.	2.0	2.5	2.0
R13-14007	1.7	1.0	1.5	.	3.3	2.0	2.0
R13-14575RR	1.0	1.0	1.5	.	2.3	2.5	2.0
Mean	1.5	1.0	1.6	.	1.8	1.8	2.0
LSD(0.05)	0.7	.	0.3	.	0.8	.	.
CV(%)	29.2	.	10.7	.	25.6	.	.

TABLE 85 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	1.5	1.0	1.5	1.5
NC-Dunphy	2.0	1.0	2.5	1.7
NC-ROY	1.5	1.0	1.5	1.4
NC-Dilday	2.0	1.2	2.2	1.9
G12-1475R2	1.5	1.0	1.5	1.3
G13-2842R2	1.5	1.0	1.5	1.3
G13-2947R2	1.5	1.0	1.7	1.6
N06-19	2.0	1.0	1.5	1.7
N08-174	2.0	1.0	1.5	1.7
N10-687	1.5	1.0	1.5	1.3
N10-7187	2.0	1.2	1.5	1.4
N11-340	1.5	1.0	1.5	1.5
N11-352	1.5	1.0	1.5	1.3
N11-7089	1.5	1.2	1.7	1.5
N11-8508	2.0	1.2	1.5	1.5
N11-9519	1.5	1.0	1.5	1.5
R11-171	2.0	1.2	1.5	1.7
R13-907	1.5	1.0	1.7	1.8
R13-14007	1.0	1.0		1.8
R13-14575RR	1.5	1.2	1.5	1.6
Mean	1.7	1.1	1.6	1.6
LSD(0.05)	.	0.3	0.5	0.3
CV(%)	.	15.1	19.2	26.0

TABLE 86 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	15.5	13.7	15.5	.	17.9	14.1	13.1
NC-Dunphy	17.7	18.1	19.7	.	21.4	16.7	14.6
NC-ROY	13.8	12.4	14.5	.	16.9	13.1	11.8
NC-Dilday	18.7	18.2	20.1	.	22.7	17.5	16.0
G12-1475R2	15.5	16.2	17.0	.	21.3	12.8	14.9
G13-2842R2	15.4	16.2	16.9	.	20.5	13.9	12.1
G13-2947R2	13.7	12.7	15.1	.	20.2	13.8	12.3
N06-19	13.5	14.3	16.9	.	20.6	13.5	12.9
N08-174	17.3	15.4	18.9	.	19.9	15.7	14.2
N10-687	13.7	12.1	13.1	.	16.4	12.3	11.5
N10-7187	14.0	12.6	13.8	.	17.2	12.5	12.0
N11-340	14.2	12.8	15.4	.	17.9	13.7	12.6
N11-352	13.9	11.4	14.3	.	17.6	12.2	11.5
N11-7089	13.9	13.2	14.5	.	17.8	13.0	12.5
N11-8508	14.4	13.6	14.0	.	17.3	13.5	14.3
N11-9519	18.4	17.3	20.2	.	20.4	17.9	16.5
R11-171	16.8	16.7	16.9	.	15.9	14.7	13.9
R13-907	20.5	18.8	20.9	.	20.4	17.9	16.3
R13-14007	17.7	18.3	19.4	.	20.1	16.1	14.8
R13-14575RR	13.7	12.6	15.7	.	18.4	13.9	10.7
Mean	15.6	14.8	16.6	.	19.0	14.4	13.4
LSD(0.05)	1.2	.	1.4	.	2.7	.	.
CV(%)	4.7	.	5.0	.	8.6	.	.

TABLE 86 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	11.7	15.0	13.6	14.5
NC-Dunphy	16.6	17.4	16.1	17.6
NC-ROY	11.8	13.8	13.3	13.5
NC-Dilday	17.3	18.2	16.8	18.4
G12-1475R2	13.0	15.0	14.3	15.6
G13-2842R2	13.3	16.3	14.0	15.5
G13-2947R2	12.8	15.5	12.1	14.3
N06-19	14.5	14.4	14.6	15.1
N08-174	15.6	15.9	15.2	16.5
N10-687	10.9	13.4	12.4	12.9
N10-7187	10.7	14.2	13.5	13.5
N11-340	12.6	14.4	13.5	14.2
N11-352	11.6	13.4	12.8	13.3
N11-7089	12.5	14.4	14.0	14.0
N11-8508	12.0	13.8	15.0	14.2
N11-9519	17.3	18.6	15.4	17.9
R11-171	15.2	15.6	15.6	15.6
R13-907	18.4	19.3	18.4	19.0
R13-14007	17.4	16.8	.	17.4
R13-14575RR	13.2	13.0	13.7	13.9
Mean	13.9	15.4	14.4	15.3
LSD(0.05)	.	1.3	1.2	0.9
CV(%)	.	5.0	5.2	7.6

TABLE 87 - OIL (%)†
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	18.0	.	.	.	17.8	19.0	19.1
NC-Dunphy	19.1	.	.	.	17.5	20.1	19.6
NC-ROY	18.3	.	.	.	17.2	18.6	19.2
NC-Dilday	19.7	.	.	.	17.8	20.6	20.5
G12-1475R2	18.4	.	.	.	18.9	19.6	19.9
G13-2842R2	17.3	.	.	.	18.6	19.4	18.9
G13-2947R2	19.3	.	.	.	18.1	20.7	20.0
N06-19	18.8	.	.	.	18.3	20.2	19.5
N08-174	18.4	.	.	.	17.4	20.0	19.9
N10-687	17.6	.	.	.	17.7	19.2	18.0
N10-7187	18.2	.	.	.	17.8	18.8	19.0
N11-340	20.0	.	.	.	18.4	20.1	20.7
N11-352	19.7	.	.	.	19.3	20.9	21.2
N11-7089	17.9	.	.	.	17.0	18.5	19.2
N11-8508	18.8	.	.	.	17.1	18.5	19.5
N11-9519	18.6	.	.	.	18.2	19.4	19.0
R11-171	18.6	.	.	.	18.5	19.2	20.2
R13-907	19.2	.	.	.	18.2	18.9	20.7
R13-14007	18.4	.	.	.	17.2	18.7	19.5
R13-14575RR	18.2	.	.	.	17.6	18.9	19.0
Mean	18.6	.	.	.	17.9	19.5	19.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 87 - OIL (%)† (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	18.6	19.7	.	18.7
NC-Dunphy	19.3	20.9	.	19.4
NC-ROY	17.8	19.3	.	18.4
NC-Dilday	20.0	20.6	.	19.9
G12-1475R2	19.4	20.5	.	19.5
G13-2842R2	18.0	19.6	.	18.6
G13-2947R2	19.1	21.3	.	19.7
N06-19	19.6	20.6	.	19.5
N08-174	18.8	20.5	.	19.2
N10-687	17.1	19.2	.	18.1
N10-7187	17.4	18.8	.	18.3
N11-340	19.6	20.3	.	19.8
N11-352	19.6	21.3	.	20.3
N11-7089	17.7	19.7	.	18.3
N11-8508	17.7	19.8	.	18.6
N11-9519	19.1	19.5	.	19.0
R11-171	19.5	19.1	.	19.2
R13-907	19.4	20.8	.	19.5
R13-14007	19.0	19.9	.	18.8
R13-14575RR	18.1	20.2	.	18.7
Mean	18.7	20.1	.	19.1
LSD(0.05)	.	.	.	0.5
CV(%)	.	.	.	2.4

TABLE 88 - PROTEIN (%)†
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clemson, SC	Florence, SC	Kinston, NC	Stoneville, MS
AG6534	38.0	.	.	.	38.7	35.9	36.6
NC-Dunphy	35.2	.	.	.	38.5	31.8	33.6
NC-ROY	36.2	.	.	.	40.4	36.6	34.5
NC-Dilday	33.9	.	.	.	36.7	32.3	32.9
G12-1475R2	35.0	.	.	.	35.6	33.2	33.4
G13-2842R2	37.5	.	.	.	36.6	33.2	35.7
G13-2947R2	33.9	.	.	.	37.3	32.7	33.5
N06-19	36.2	.	.	.	38.9	34.4	34.7
N08-174	36.0	.	.	.	38.3	34.1	33.0
N10-687	36.4	.	.	.	39.6	34.7	36.3
N10-7187	37.4	.	.	.	39.5	35.5	34.5
N11-340	33.8	.	.	.	40.1	33.6	33.0
N11-352	34.5	.	.	.	36.6	32.6	32.2
N11-7089	35.1	.	.	.	40.0	36.0	35.2
N11-8508	35.4	.	.	.	40.5	37.2	34.4
N11-9519	36.6	.	.	.	39.9	36.4	36.5
R11-171	35.8	.	.	.	37.0	34.3	33.9
R13-907	34.0	.	.	.	37.8	35.5	33.7
R13-14007	38.5	.	.	.	39.4	37.0	36.3
R13-14575RR	33.5	.	.	.	37.5	34.3	34.2
Mean	35.7	.	.	.	38.4	34.6	34.4
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 88 - PROTEIN (%)† (continued)
UNIFORM GROUP VI 2017

STRAIN/ VARIETY	Stuttgart, AR	Tallassee, AL	Tifton, GA	Test Mean
AG6534	36.1	35.2	.	36.8
NC-Dunphy	32.1	31.6	.	33.8
NC-ROY	36.4	34.9	.	36.5
NC-Dilday	31.3	32.4	.	33.2
G12-1475R2	33.1	32.4	.	33.8
G13-2842R2	35.9	35.1	.	35.7
G13-2947R2	34.0	32.0	.	33.9
N06-19	34.8	33.6	.	35.4
N08-174	33.8	32.3	.	34.6
N10-687	37.0	35.7	.	36.6
N10-7187	36.9	35.9	.	36.6
N11-340	33.7	32.8	.	34.5
N11-352	34.0	31.9	.	33.6
N11-7089	36.9	34.6	.	36.3
N11-8508	37.5	33.6	.	36.4
N11-9519	36.8	35.5	.	36.9
R11-171	33.5	34.1	.	34.8
R13-907	35.8	33.7	.	35.1
R13-14007	36.3	35.0	.	37.1
R13-14575RR	34.2	30.8	.	34.1
Mean	35.0	33.7	.	35.3
LSD(0.05)	.	.	.	1.1
CV(%)	.	.	.	2.6

TABLE 89 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP VI 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AG6534	Commercial check	Commercial		RR1	
2	NC-Dunphy	MD99-6226 x N97-9677	Carter		Conv	Diversity
3	NC-ROY	Holladay x Brim	Carter		Conv	
4	NC-Dilday	N99-8137 x TN99-117	Carter		Conv	Diversity
5	DS99-522-11	LG01-5087-5 x Osage	Rusty Smith	F5	Conv	19% exotic
6	G13-6241	G00-3213 x LG04-6000	Li	F5d	Conv	19% exotic
7	G14-1755R2	G10PR-10 x G10PR-56389 R2Y	Li	F5d	RR2	
8	G14-2737R2	R02-3065 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
9	G14-3624R2	G08PR-339 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	
10	G14-6063	G08PR-394 x G09PR-25	Li	F5d	Conv	25% exotic
11	G15PR-340	{G00-3880 (4) x [Benning low lin/low palm]} x {G00-3880(4) x [G00-3213 x (17D x S08-14788)]}	Li	BC4 F3d	Conv	HO
12	N07-14718	Young x N94-7350	Mian	F4	Conv	Diversity-Protein, 25% exotic
13	N08-105	N99-186 x TN99-117	Mian	F4	Conv	
14	N09-209	N02-205 x MD97-6065	Mian	F4	Conv	
15	N09-12273	NC-Roy x Blue Side-BB	Mian	F4	Conv	Protein or Oil
16	N11-339	N05-741 x N05-196	Mian	F4	Conv	
17	N11-9298	N03-12249 x N03-11895	Mian	F4	Conv	High Protein or Oil
18	NSTPR14-353	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
19	NSTPR14-358	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
20	NSTPR14-407	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
21	NSTPR14-446	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
22	NSTPR14-478	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
23	NSTPR14-531	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
24	R14-1358	R06-4433 x R04-572	Mozzoni	F5	Conv	
25	R14-14648	R09-1822 x R09-1589	Mozzoni	F4	Conv	
26	SC10-154	SC98-1850 x Manokin	Fallen		Conv	LJ trait
27	SC10-179	SC98-1850 x Manokin	Fallen		Conv	LJ trait
28	SC10-260	SC98-1850 x Manokin	Fallen		Conv	LJ Trait

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 90 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST VI 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 2	Race 3	Race 5	SC RATING	SC SCORE
AG6534	49.9	9	12	0	1.9	33	.	4	5	SS	3
NC-Dunphy	53.8	2	9	1	2.0	29	.	2	4	R	1
NC-ROY	47.8	16	17	0	2.8	36	.	4	4	SS	3
NC-Dilday	52.2	4	10	3	2.7	33	.	3	5	R	1
DS99-522-11	47.1	22	17	1	3.2	38	.	3	4	R	1
G13-6241	53.0	3	9	-6	2.3	33	.	4	5	R	1
G14-1755R2	43.9	27	20	4	3.0	42	.	3	4	R	1
G14-2737R2	48.1	15	15	3	2.8	40	.	2	5	MS	4
G14-3624R2	47.1	23	16	-4	2.0	35	.	1	5	S	5
G14-6063	50.3	8	12	0	2.2	35	.	3	4	MS	4
G15PR-340	51.0	7	9	1	2.5	37	.	2	4	S	5
N07-14718	47.5	20	17	2	2.8	37	.	3	5	S	5
N08-105	51.2	6	11	-1	2.7	33	.	1	5	R	1
N09-209	51.4	5	8	-2	2.6	33	.	1	5	R	1
N09-12273	47.7	18	16	1	2.7	34	.	3	5	S	5
N11-339	54.0	1	6	-2	2.2	30	.	3	5	R	1
N11-9298	49.6	12	14	-2	2.3	37	.	5	4	S	5
NSTPR14-353	47.0	24	16	2	3.1	38	.	4	5	S	5
NSTPR14-358	49.9	10	14	0	2.7	35	.	4	4	R	1
NSTPR14-407	47.5	21	16	3	2.8	37	.	4	5	S	5
NSTPR14-446	48.2	14	17	1	2.7	38	.	4	5	S	5
NSTPR14-478	47.6	19	15	3	2.7	37	.	4	5	S	5
NSTPR14-531	48.4	13	16	2	2.7	36	.	4	5	S	5
R14-1358	47.7	17	17	1	2.3	35	.	4	4	MS	4
R14-14648	49.6	11	13	-1	2.3	34	.	4	5	S	5
SC10-154	41.5	28	25	-2	2.8	39	.	1	5	MS	4
SC10-179	45.9	25	19	-6	2.5	36	.	1	.	R	1
SC10-260	44.6	26	22	-6	2.7	35	.	1	2	MR	2
Mean	48.7	.	.	0	2.6	36	.	.	.		.
LSD(0.05)	6.2	.	.	6	.	3	.	.	.		.
CV(%)	13.2	.	.	3000	.	9	.	.	.		.

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

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

TABLE 90 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST VI 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
AG6534	1.9	13.8	35.3	19.0	P	T	T
NC-Dunphy	1.8	16.3	33.3	19.8	P	G	T
NC-ROY	1.7	11.9	36.6	18.3	W	G	Br
NC-Dilday	2.0	17.0	32.6	20.5	P	G	Br
DS99-522-11	1.9	13.3	35.5	19.1	P	G	T
G13-6241	1.9	16.7	34.6	18.8	W	T	T
G14-1755R2	1.9	13.5	37.0	17.8	P	T	T
G14-2737R2	1.8	13.9	36.1	18.3	P	T	T
G14-3624R2	1.7	14.9	37.0	19.1	W	T	T
G14-6063	1.7	15.7	34.9	20.1	W	G	T
G15PR-340	1.8	11.9	33.8	20.1	P	T	T
N07-14718	1.6	14.5	36.0	19.5	P	G	T
N08-105	2.0	16.2	33.6	20.4	P	T	T
N09-209	1.8	14.4	33.4	20.2	P	G	T
N09-12273	2.1	16.4	35.1	19.9	P	G	Br
N11-339	2.0	16.1	34.3	19.4	W	G	T
N11-9298	1.7	14.8	32.9	21.2	P	G	T
NSTPR14-353	1.9	14.4	35.9	18.5	P	G	Br
NSTPR14-358	1.6	14.4	36.4	19.3	W	G	T
NSTPR14-407	1.7	14.6	35.9	19.7	P	G	T
NSTPR14-446	1.7	13.8	36.8	19.3	P	G	T
NSTPR14-478	1.9	14.3	35.9	19.1	W	G	T
NSTPR14-531	1.8	14.3	35.4	20.2	W	G	T
R14-1358	1.8	12.7	34.8	19.4	S	G	T
R14-14648	1.8	14.3	33.6	18.9	P	G	T/Br
SC10-154	2.0	12.5	34.3	19.4	W	G	T
SC10-179	1.8	15.4	34.2	20.0	W	G	T
SC10-260	2.1	13.9	35.4	19.1	W	G	T
Mean	1.8	14.5	35.0	19.4			
LSD(0.05)	0.3	1.1	1.3	0.7			
CV(%)	13.3	6.4	3.0	2.8			

TABLE 91 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	*Clemson, SC*	*Kinston, NC*	*Plymouth, NC*	*Stoneville, MS*	*Stuttgart, AR*	*Tallassee, AL*	*Test Mean*
AG6534	57.7	41.5	36.1	28.6	63.3	50.7	49.9
NC-Dunphy	63.8	41.7	44.2	49.5	75.6	43.6	53.8
NC-ROY	50.0	40.5	37.8	34.5	58.5	52.2	47.8
NC-Dilday	57.2	44.6	49.8	37.5	63.3	45.7	52.2
DS99-522-11	56.4	41.4	33.7	45.9	65.8	38.4	47.1
G13-6241	61.5	51.2	44.4	54.2	61.7	46.0	53.0
G14-1755R2	55.2	35.0	17.0	12.5	57.4	54.4	43.9
G14-2737R2	55.6	44.2	32.9	19.5	58.0	50.0	48.1
G14-3624R2	60.5	34.5	29.5	24.7	65.4	45.7	47.1
G14-6063	61.5	38.6	34.4	39.5	68.0	48.9	50.3
G15PR-340	58.0	45.4	34.9	34.1	65.0	51.8	51.0
N07-14718	50.3	43.0	31.7	33.7	68.7	44.0	47.5
N08-105	54.9	44.3	45.5	45.1	64.6	46.7	51.2
N09-209	57.5	44.3	38.3	24.8	67.5	49.3	51.4
N09-12273	46.0	48.4	36.0	30.9	62.0	45.9	47.7
N11-339	54.2	48.8	50.6	54.3	66.2	50.0	54.0
N11-9298	55.4	40.0	42.1	23.7	62.5	47.5	49.6
NSTPR14-353	54.0	44.9	26.7	24.3	60.7	49.2	47.0
NSTPR14-358	53.1	42.9	43.8	26.8	65.1	44.5	49.9
NSTPR14-407	50.7	43.0	32.1	26.7	65.5	46.3	47.5
NSTPR14-446	58.0	42.0	35.4	23.2	61.0	44.4	48.2
NSTPR14-478	57.1	43.6	25.6	22.8	64.7	46.9	47.6
NSTPR14-531	52.8	39.5	39.8	21.0	61.8	48.2	48.4
R14-1358	48.7	38.1	41.8	42.9	65.2	44.8	47.7
R14-14648	60.2	42.3	36.0	43.2	72.3	37.4	49.6
SC10-154	45.9	37.1	20.4	22.6	59.4	44.7	41.5
SC10-179	57.9	38.8	39.2	33.4	54.5	39.1	45.9
SC10-260	52.5	33.9	36.1	37.5	61.5	39.2	44.6
Mean	55.2	41.9	36.3	32.8	63.8	46.3	48.7
LSD(0.05)	10.4	7.7	7.4	8.5	7.1	8.5	6.2
CV(%)	11.5	11.0	12.4	15.9	6.7	11.1	13.2

TABLE 92 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1) UNIFORM GROUP VI 2017

STRAIN/ VARIETY	*Clemson, SC*	*Kinston, NC*	*Plymouth, NC*	*Stoneville, MS*	*Stuttgart, AR*	*Tallassee, AL*	*Test Mean*
AG6534	10/24	10/20	10/18	9/30	10/5	10/26	10/16
NC-Dunphy	1	0	-3	4	-3	5	1
NC-ROY	0	0	-3	5	-1	1	0
NC-Dilday	3	3	0	3	0	11	3
DS99-522-11	4	3	-1	2	-3	1	1
G13-6241	-1	-7	-4	-15	-9	1	-6
G14-1755R2	4	3	0	9	4	1	4
G14-2737R2	3	-1	0	7	5	2	3
G14-3624R2	2	-1	-13	-15	-2	2	-4
G14-6063	1	2	-1	-1	-3	3	0
G15PR-340	2	-2	-3	8	-2	1	1
N07-14718	3	3	3	4	-3	3	2
N08-105	1	-6	-4	-8	-3	13	-1
N09-209	3	5	-4	-17	-2	5	-2
N09-12273	-2	2	-2	7	-1	2	1
N11-339	0	-8	-3	0	-3	-1	-2
N11-9298	2	0	-3	-13	-2	5	-2
NSTPR14-353	2	3	3	4	-3	5	2
NSTPR14-358	1	2	-3	3	-4	3	0
NSTPR14-407	4	6	3	7	-3	1	3
NSTPR14-446	2	2	0	-1	-2	3	1
NSTPR14-478	2	2	9	4	-3	6	3
NSTPR14-531	1	4	1	2	-1	4	2
R14-1358	2	2	2	2	-3	1	1
R14-14648	2	-7	-3	2	-3	0	-1
SC10-154	7	4	-15	-17	-5	12	-2
SC10-179	4	-3	-12	-21	-9	5	-6
SC10-260	4	3	-14	-22	-15	12	-6
Mean	2	1	-3	-2	-3	4	0
LSD(0.05)	2	5	4	1	2	6	6
CV(%)	70	366	79	43	40	102	2784

TABLE 93 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	*Clemson, SC*	*Kinston, NC*	*Plymouth, NC*	*Stoneville, MS*	*Stuttgart, AR*	*Tallassee, AL*	*Test Mean*
AG6534	35	32	43	31	30	25	33
NC-Dunphy	36	29	35	28	24	21	29
NC-ROY	38	41	48	30	30	30	36
NC-Dilday	38	31	43	32	30	24	33
DS99-522-11	39	37	47	39	34	30	38
G13-6241	37	38	39	33	27	25	33
G14-1755R2	42	51	49	42	40	32	42
G14-2737R2	43	47	49	36	36	33	40
G14-3624R2	39	38	42	36	31	28	35
G14-6063	40	34	45	36	30	25	35
G15PR-340	39	41	48	36	33	27	37
N07-14718	39	38	42	40	34	27	37
N08-105	37	35	37	34	29	25	33
N09-209	37	35	42	30	29	26	33
N09-12273	32	39	43	29	34	30	34
N11-339	35	31	40	29	26	22	30
N11-9298	40	37	45	37	34	27	37
NSTPR14-353	37	41	44	39	36	28	38
NSTPR14-358	36	40	44	32	34	27	35
NSTPR14-407	33	37	46	39	36	29	37
NSTPR14-446	35	37	42	42	38	30	38
NSTPR14-478	38	37	48	41	33	27	37
NSTPR14-531	36	36	42	37	34	28	36
R14-1358	37	37	48	33	30	27	35
R14-14648	38	33	43	35	30	26	34
SC10-154	37	37	45	47	33	33	39
SC10-179	39	33	40	41	29	30	36
SC10-260	36	35	38	40	31	27	35
Mean	37	37	43	36	32	28	36
LSD(0.05)	4	.	5	2	5	3	3
CV(%)	7	.	5	4	9	7	9

TABLE 94 - PLANT LODGING (1-5)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Clemson, SC	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	3.3	1.5	3.0	2.0	1.0	1.0	1.9
NC-Dunphy	3.3	1.5	2.8	2.0	1.7	1.0	2.0
NC-ROY	3.7	2.0	3.2	2.7	2.0	3.0	2.8
NC-Dilday	3.7	2.0	2.8	3.0	2.3	2.2	2.7
DS99-522-11	4.0	1.5	3.5	3.0	3.3	3.5	3.2
G13-6241	3.7	2.0	3.2	2.3	1.0	1.8	2.3
G14-1755R2	3.7	2.0	3.5	2.3	3.3	3.3	3.0
G14-2737R2	3.7	2.0	3.2	2.7	2.3	3.0	2.8
G14-3624R2	3.3	1.5	2.3	2.3	1.3	1.5	2.0
G14-6063	4.0	1.7	2.3	2.3	1.7	1.2	2.2
G15PR-340	3.3	1.7	3.0	3.0	2.0	2.2	2.5
N07-14718	4.0	2.0	3.7	3.0	2.3	2.0	2.8
N08-105	4.0	2.0	3.2	3.0	1.7	2.3	2.7
N09-209	4.0	1.7	2.5	3.0	1.7	2.7	2.6
N09-12273	3.3	2.0	3.2	2.0	2.0	3.7	2.7
N11-339	3.7	1.5	4.0	2.0	1.3	1.0	2.2
N11-9298	3.7	1.7	3.0	2.3	2.0	1.3	2.3
NSTPR14-353	4.0	2.0	3.0	3.7	3.0	2.7	3.1
NSTPR14-358	4.0	2.2	2.8	2.7	2.3	2.3	2.7
NSTPR14-407	4.0	1.7	3.2	3.0	2.7	1.8	2.8
NSTPR14-446	4.0	2.0	2.5	3.3	2.3	2.2	2.7
NSTPR14-478	3.7	1.7	2.5	3.0	2.7	2.3	2.7
NSTPR14-531	4.0	2.0	3.0	2.3	2.7	2.0	2.7
R14-1358	4.0	1.7	2.8	2.0	2.0	1.2	2.3
R14-14648	3.7	1.7	2.8	2.0	2.3	1.3	2.3
SC10-154	3.7	2.0	3.5	2.7	2.3	2.5	2.8
SC10-179	4.0	1.7	3.0	2.7	1.7	2.2	2.5
SC10-260	4.0	1.8	3.0	3.7	2.0	1.7	2.7
Mean	3.8	1.8	3.0	2.6	2.1	2.1	2.6
LSD(0.05)	0.8	0.6	1.0	0.6	0.8	0.9	0.5
CV(%)	13.1	15.5	16.3	13.9	23.0	25.4	21.9

TABLE 95 - SEED QUALITY (1-5)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Clemson, SC	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534		2.0	3.0	2.0	1.5	1.0	1.9
NC-Dunphy		1.5	2.5	2.0	2.0	1.0	1.8
NC-ROY		1.5	2.0	2.0	2.0	1.2	1.7
NC-Dilday		2.0	3.0	2.0	2.0	1.0	2.0
DS99-522-11		1.5	3.5	2.0	1.5	1.0	1.9
G13-6241		1.5	2.5	2.0	2.0	1.3	1.9
G14-1755R2		1.5	3.0	2.0	2.0	1.0	1.9
G14-2737R2		1.5	2.5	2.0	2.0	1.0	1.8
G14-3624R2		1.5	2.5	2.0	1.5	1.2	1.7
G14-6063		1.5	2.5	2.0	1.5	1.0	1.7
G15PR-340		1.5	2.5	2.0	2.0	1.0	1.8
N07-14718		1.5	2.0	2.0	1.5	1.0	1.6
N08-105		2.0	2.5	2.0	2.0	1.5	2.0
N09-209		2.0	2.5	2.0	1.5	1.0	1.8
N09-12273		2.0	2.5	2.0	2.0	1.7	2.1
N11-339		1.5	3.0	2.0	2.0	1.5	2.0
N11-9298		1.5	2.5	2.0	1.5	1.0	1.7
NSTPR14-353		1.5	3.0	2.0	2.0	1.0	1.9
NSTPR14-358		1.5	2.0	2.0	1.5	1.0	1.6
NSTPR14-407		1.5	2.5	2.0	1.5	1.0	1.7
NSTPR14-446		1.5	2.5	2.0	1.5	1.0	1.7
NSTPR14-478		1.5	3.0	2.0	2.0	1.0	1.9
NSTPR14-531		1.5	2.5	2.0	2.0	1.0	1.8
R14-1358		1.5	3.0	2.0	1.5	1.0	1.8
R14-14648		2.0	2.5	2.0	1.5	1.2	1.8
SC10-154		2.0	3.5	2.0	1.5	1.2	2.0
SC10-179		1.5	2.5	2.0	2.0	1.2	1.8
SC10-260		2.0	3.5	2.0	2.0	1.0	2.1
Mean		1.6	2.7	2.0	1.8	1.1	1.8
LSD(0.05)		.	.	.	.	0.2	0.3
CV(%)		.	.	.	.	13.1	13.3

TABLE 96 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Clemson, SC	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	.	13.5	14.4	13.4	12.6	15.1	13.8
NC-Dunphy	.	15.7	16.9	15.0	15.9	17.9	16.3
NC-ROY	.	11.0	11.2	11.5	11.5	14.1	11.9
NC-Dilday	.	15.6	16.6	16.5	16.8	19.2	17.0
DS99-522-11	.	13.9	13.5	12.8	12.8	14.0	13.3
G13-6241	.	15.5	16.5	16.2	16.9	18.2	16.7
G14-1755R2	.	16.6	11.6	12.5	12.0	15.0	13.5
G14-2737R2	.	13.5	13.6	12.7	12.9	16.3	13.9
G14-3624R2	.	15.6	13.5	11.9	15.7	17.5	14.9
G14-6063	.	16.1	16.3	13.9	14.8	17.5	15.7
G15PR-340	.	11.9	10.3	11.9	11.3	13.7	11.9
N07-14718	.	15.4	14.0	12.1	14.9	16.1	14.5
N08-105	.	16.1	16.3	15.2	16.3	17.1	16.2
N09-209	.	15.4	13.5	12.4	14.7	15.8	14.4
N09-12273	.	17.9	14.2	14.7	15.5	19.2	16.4
N11-339	.	15.4	17.2	15.9	15.9	16.3	16.1
N11-9298	.	14.5	14.3	12.3	15.8	16.7	14.8
NSTPR14-353	.	14.6	14.3	12.1	14.8	16.3	14.4
NSTPR14-358	.	16.2	13.2	12.1	14.6	16.0	14.4
NSTPR14-407	.	15.7	13.9	13.5	14.7	15.5	14.6
NSTPR14-446	.	14.6	13.0	13.0	13.9	14.7	13.8
NSTPR14-478	.	15.2	12.4	12.7	15.2	15.7	14.3
NSTPR14-531	.	13.8	14.6	12.3	14.7	16.1	14.3
R14-1358	.	11.9	12.3	12.0	13.3	13.9	12.7
R14-14648	.	15.0	14.4	12.3	15.2	15.1	14.3
SC10-154	.	13.5	10.9	10.7	13.0	14.2	12.5
SC10-179	.	14.9	15.0	13.1	15.8	17.8	15.4
SC10-260	.	15.4	14.2	12.6	13.2	14.6	13.9
Mean	.	14.8	14.0	13.1	14.5	16.1	14.5
LSD(0.05)	.	.	.	.	.	1.0	1.1
CV(%)	.	.	.	.	.	3.8	6.4

TABLE 97 - OIL (%)†
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Clemson, SC	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	.	19.9	18.0	19.5	18.5	19.2	19.0
NC-Dunphy	.	20.3	19.1	20.0	19.0	20.3	19.8
NC-ROY	.		17.5	18.8	17.7	18.8	18.3
NC-Dilday	.	21.4	20.0	21.1	19.5	20.6	20.5
DS99-522-11	.	19.7	18.8	18.1	18.8	19.9	19.1
G13-6241	.	19.3	18.0	19.2	18.2	19.5	18.8
G14-1755R2	.	18.9	17.1	17.2	17.0	18.9	17.8
G14-2737R2	.	18.9	17.3	18.6	17.5	19.3	18.3
G14-3624R2	.	20.5	17.9	19.0	18.4	19.8	19.1
G14-6063	.	20.9	19.0	19.7	19.8	21.0	20.1
G15PR-340	.	20.3	19.2	20.6	19.7	20.6	20.1
N07-14718	.	19.2	19.5	19.4	19.0	20.4	19.5
N08-105	.	20.8	19.9	20.4	19.8	21.0	20.4
N09-209	.	20.1	20.0	20.5	19.5	20.9	20.2
N09-12273	.	19.6	19.1	20.7	19.7	20.7	19.9
N11-339	.	18.8	19.5	19.6	18.8	20.4	19.4
N11-9298	.	21.5	20.0	21.4	20.7	22.3	21.2
NSTPR14-353	.	15.8	18.8	19.8	18.5	19.6	18.5
NSTPR14-358	.	19.7	19.2	19.6	18.4	19.7	19.3
NSTPR14-407	.	20.1	19.0	19.9	19.3	20.5	19.7
NSTPR14-446	.	19.9	18.9	19.0	18.7	20.0	19.3
NSTPR14-478	.	19.7	20.1	18.6	18.1	19.1	19.1
NSTPR14-531	.	20.9	19.1	20.0	19.6	21.7	20.2
R14-1358	.	19.8	18.5	19.6	18.9	20.2	19.4
R14-14648	.	18.8	18.8	19.5	18.2	19.4	18.9
SC10-154	.	20.2	18.3	19.3	19.1	20.0	19.4
SC10-179	.	19.8	19.5	19.8	20.0	20.6	20.0
SC10-260	.	19.0	18.2	19.7	18.9	19.9	19.1
Mean	.	19.8	18.9	19.6	18.9	20.2	19.4
LSD(0.05)	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	2.8

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

TABLE 98 - PROTEIN (%)†
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Clemson, SC	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	.	34.3	38.0	34.9	36.2	33.0	35.3
NC-Dunphy	.	32.1	35.6	32.7	33.7	32.5	33.3
NC-ROY	.		37.9	35.8	37.1	36.3	36.6
NC-Dilday	.	30.2	34.7	32.3	33.7	32.3	32.6
DS99-522-11	.	34.5	35.9	36.7	35.0	35.4	35.5
G13-6241	.	33.1	36.5	34.5	35.0	33.8	34.6
G14-1755R2	.	35.2	38.3	38.8	37.2	35.5	37.0
G14-2737R2	.	34.5	37.4	36.8	37.2	34.9	36.1
G14-3624R2	.	34.9	39.3	37.5	37.4	35.7	37.0
G14-6063	.	33.5	37.1	36.3	34.0	33.4	34.9
G15PR-340	.	33.1	37.3	32.2	32.4	34.1	33.8
N07-14718	.	37.1	37.0	35.5	35.9	34.4	36.0
N08-105	.	33.4	35.8	33.1	33.6	32.0	33.6
N09-209	.	32.9	34.4	33.6	34.2	32.1	33.4
N09-12273	.	35.4	36.0	34.6	34.5	35.1	35.1
N11-339	.	33.8	36.4	34.6	34.1	32.8	34.3
N11-9298	.	34.1	35.9	33.1	33.4	28.1	32.9
NSTPR14-353	.	34.6	37.0	35.2	36.2	36.4	35.9
NSTPR14-358	.	36.7	37.3	35.2	36.9	36.2	36.4
NSTPR14-407	.	36.0	37.3	35.3	35.8	34.8	35.9
NSTPR14-446	.	36.4	37.9	37.3	36.2	36.0	36.8
NSTPR14-478	.	35.3	33.8	37.4	36.8	36.1	35.9
NSTPR14-531	.	33.8	37.9	35.4	35.8	34.1	35.4
R14-1358	.	33.8	36.9	34.4	35.0	34.1	34.8
R14-14648	.	33.8	34.9	32.3	34.3	32.8	33.6
SC10-154	.	32.5	35.7	35.6	33.7	33.9	34.3
SC10-179	.	33.5	35.4	35.4	33.5	33.2	34.2
SC10-260	.	35.9	35.5	36.5	34.6	34.6	35.4
Mean	.	34.2	36.5	35.1	35.1	34.1	35.0
LSD(0.05)	.	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	.	3.0

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

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST VI 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AG6534	12.0	3.7	23.0	54.0	7.2
NC-Dunphy	13.0	3.3	21.0	55.0	7.5
NC-ROY	12.0	3.6	21.0	56.0	7.7
NC-Dilday	11.0	3.4	20.0	58.0	7.8
G15PR-340	7.6	3.0	81.0	5.2	3.2
Mean	11.0	3.4	33.0	46.0	6.7
LSD(0.05)	0.4	0.2	2.6	2.2	0.8
CV(%)	2.6	3.5	5.7	3.4	8.1

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	11.9	12.0	12.3	12.2	12.4	12.2
NC-Dunphy	12.7	12.4	12.7	12.8	12.7	12.6
NC-ROY	11.9	11.0	12.0	11.7	11.9	11.7
NC-Dilday	11.1	10.8	11.0	11.5	11.5	11.2
G15PR-340	7.1	8.0	7.7	7.4	.	7.6
Mean	10.9	10.8	11.1	11.1	12.1	11.0
LSD(0.05)	.	.	.	.	.	0.4
CV(%)	.	.	.	.	.	2.6

SEED STEARIC ACID (%)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	3.7	3.4	3.6	4.0	3.7	3.7
NC-Dunphy	3.1	3.1	3.3	3.4	3.4	3.3
NC-ROY	3.4	3.6	3.6	3.7	3.7	3.6
NC-Dilday	3.5	3.3	3.2	3.4	3.4	3.4
G15PR-340	3.0	3.1	3.1	3.0	.	3.0
Mean	3.3	3.3	3.4	3.5	3.5	3.4
LSD(0.05)	.	.	.	.	.	0.2
CV(%)	.	.	.	.	.	3.5

SEED OLEIC ACID (%)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	26.3	24.1	22.5	22.1	21.4	23.3
NC-Dunphy	23.9	24.3	19.0	18.2	21.6	21.4
NC-ROY	21.1	26.9	16.5	19.1	20.0	20.7
NC-Dilday	23.4	23.0	17.4	15.2	19.2	19.7
G15PR-340	82.5	80.8	81.1	79.9	.	80.9
Mean	35.4	35.8	31.3	30.9	20.6	33.2
LSD(0.05)	.	.	.	.	.	2.6
CV(%)	.	.	.	.	.	5.7

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	51.5	53.2	55.3	53.6	55.1	53.7
NC-Dunphy	52.9	53.1	57.6	57.0	55.2	55.2
NC-ROY	56.1	51.4	61.1	56.5	56.2	56.3
NC-Dilday	54.7	55.7	61.4	59.6	58.4	58.0
G15PR-340	4.4	4.9	5.1	6.2	.	5.2
Mean	43.9	43.7	48.1	46.6	56.2	45.7
LSD(0.05)	.	.	.	.	.	2.2
CV(%)	.	.	.	.	.	3.4

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP VI 2017

STRAIN/ VARIETY	Kinston, NC	Plymouth, NC	Stoneville, MS	Stuttgart, AR	Tallassee, AL	Test Mean
AG6534	6.6	7.3	6.3	8.1	7.5	7.2
NC-Dunphy	7.4	7.0	7.5	8.6	7.0	7.5
NC-ROY	7.6	7.1	6.9	8.9	8.2	7.7
NC-Dilday	7.3	7.1	7.0	10.2	7.5	7.8
G15PR-340	3.0	3.2	3.0	3.5		3.2
Mean	6.4	6.4	6.1	7.9	7.5	6.7
LSD(0.05)	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	8.1

INTENTIONALLY BLANK

TABLE 99 - PARENTAGE OF ENTRIES
UNIFORM GROUP VII 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AGS-738RR	G99-4158 x P97M50	Commercial		RR1	
2	AG7733	Commercial check	Commercial		RR1	
3	N7003CN	Cook x Anand	Carter		Conv	Resistant to all field races of SCN
4	NC-Wilder	R97-1634 x N97-9693	Carter		Conv	12.5% exotic from PI 416937
5	G12-2062R2	G00-3880 x [G00-3213(3) x RR2Y]	Li	F5d	RR2	High Protein or Oil
6	G12-2103R2	G00-3213 x [G00-3880(3) x RR2Y]	Li	F5d	RR2	High Protein or Oil
7	G13-1269R2	G09PR-54329R2 x {G00-3213(4) x [P97M50(3) x L85-2378]}	Li	F5d	RR2	High Protein or Oil
8	G13-2454R2	AU02-3104 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	
9	G13-2755R2	R01-2346 x (G00-3880 x RR2Y)	Li	F7d	RR2	
10	G13-6299	G00-3213 x LG04-6000	Li	F5d	Conv	19 % exotic
11	N09-13884	TCPR-83 x N01-11136	Carter	F4	Conv	Drought, 37.5% exotic
12	N10-711	NTCPR01-163 x N03-832	Mian	F4	Conv	Diversity, 25% exotic
13	N10-764	N03-893 x G00-3213	Mian	F4	Conv	Diversity, 12.5% exotic
14	N10-792	N03-893 x G00-3213	Mian	F4	Conv	Diversity, 12.5% exotic
15	N10-1031	NTCPR01-163 x N03-832	Mian	F4	Conv	Diversity, 25% exotic
16	N11-7046	NC-Roy x LD00-3309	Carter	F4	Conv	Midwestern pedigree
17	N11-8042	SC97-1821 x MN0302	Carter	F4	Conv	Upper midwestern pedigree, 50% exotic
18	N11-10295	N01-11298 x N04-9646	Carter	F4	Conv	Drought-Protein, 12.5% exotic
19	N11-10605	NC-Roy x PI 612717	Carter	F4	Conv	Diversity, 50% exotic
20	SC10-406RR	SC98-2070 x SC01-783RR	Fallen		RR1	LJ Trait

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 100 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST VII 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
AGS-738RR	9	9	49.8	50.5	52.1	34.9	34.9	34.3	19.1	19.2	19.1
AG7733	19	14	40.8	45.3	49.4	35.2	35.3	34.9	18.5	18.7	18.8
N7003CN	6	9	50.9	51.1	53.0	35.3	35.5	35.1	19.0	19.1	19.1
NC-Wilder	1	6	53.9	53.4	54.3	35.0	34.9	34.6	19.7	20.0	20.0
G12-2062R2	3	6	51.4	51.8	.	37.8	37.3	.	17.8	18.2	.
G12-2103R2	7	9	50.1	50.4	.	36.2	36.4	.	18.7	18.8	.
G13-1269R2	18	13	46.2	.	.	37.5	.	.	17.9	.	.
G13-2454R2	4	8	50.9	.	.	34.9	.	.	19.1	.	.
G13-2755R2	11	11	48.4	.	.	36.5	.	.	18.4	.	.
G13-6299	2	7	51.8	.	.	36.0	.	.	19.1	.	.
N09-13884	13	12	47.6	47.0	.	37.1	37.1	.	17.9	18.2	.
N10-711	12	11	48.0	48.4	51.3	36.9	36.9	36.5	18.5	18.6	18.7
N10-764	5	10	50.9	50.8	.	36.1	36.0	.	19.1	19.4	.
N10-792	10	9	49.0	49.7	.	36.9	36.6	.	18.8	19.2	.
N10-1031	15	12	47.2	48.6	50.8	36.9	36.9	36.3	18.4	18.4	18.6
N11-7046	8	10	50.1	49.5	.	36.1	36.0	.	18.6	18.8	.
N11-8042	20	18	38.2	42.9	.	37.3	37.0	.	18.6	19.0	.
N11-10295	16	13	46.8	46.5	.	37.4	37.5	.	18.2	18.0	.
N11-10605	17	12	46.2	.	.	35.3	.	.	18.5	.	.
SC10-406RR	14	12	47.6	.	.	36.2	.	.	18.6	.	.
Mean	.	.	48.3	.	.	36.3	.	.	18.6	.	.
LSD(0.05)	.	.	5.7	.	.	1.2	.	.	0.6	.	.
CV(%)	.	.	15.2	.	.	2.5	.	.	2.6	.	.

† Data not included in mean: 2017 - Clemson, SC
2016 - Kinston, NC; Tallassee, AL(A)
2015 - Clayton, NC; Clemson, SC; Tallassee, AL(A); Bossier City, LA

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

TABLE 101 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST VII 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AGS-738RR	0	2.0	34	1.4	13.5			
AG7733	2	1.6	31	1.4	16.1			
N7003CN	2	2.5	35	1.6	17.0	W	T	
NC-Wilder	1	2.5	34	1.3	16.0	W	G	
G12-2062R2	1	2.3	35	1.4	15.2	P	T	T
G12-2103R2	3	1.6	35	1.3	17.4	W	T	T
G13-1269R2	-1	2.6	36	1.4	15.3	W	T	T
G13-2454R2	2	2.3	36	1.4	15.9	W	T	T
G13-2755R2	-1	1.5	34	1.4	16.0	W	T	T
G13-6299	2	2.6	35	1.3	14.0	W	T	Br
N09-13884	2	2.5	37	1.5	16.1	P	T	
N10-711	4	1.4	32	1.3	14.9	P	G	
N10-764	-1	2.0	34	1.3	15.5	W	T	
N10-792	2	1.6	35	1.5	16.3	W	T	
N10-1031	-1	1.7	33	1.4	12.3	P	G	
N11-7046	0	2.7	35	1.5	13.1	W	G	
N11-8042	-1	1.6	34	1.4	15.9	P	T	
N11-10295	1	2.5	38	1.3	14.2	W	G	
N11-10605	-1	3.1	33	1.4	15.1	W	G	
SC10-406RR	3	1.8	38	1.4	15.2	P	G	
Mean	1	2.1	35	1.4	15.2			
LSD(0.05)	2	0.5	2	0.2	1.1			
CV(%)	305	35.0	11	19.0	8.3			

TABLE 102 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST VII 2017

STRAIN/	*SCN Cyst Score (1-5 Scale)†*			*PRK*	*SRK*	*SC*	*SC*
VARIETY	*Race 1*	*Race 3*	*Race 5*	*GA*	*GA*	*RATING*	*SCORE*
AGS-738RR	.	1	2	1.8	1.0	R	1.0
AG7733	.	.	.	.	1.0	R	1.0
N7003CN	.	1	1	2.5	1.0	MS	4.0
NC-Wilder	.	3	5	1.3	1.0	MS	4.0
G12-2062R2	.	4	4	1.0	1.0	MS	4.0
G12-2103R2	.	3	5	1.3	1.0	MS	4.0
G13-1269R2	.	2	3	1.8	1.0	S	5.0
G13-2454R2	.	2	4	1.3	1.0	SS	3.0
G13-2755R2	.	4	5	1.3	1.0	S	5.0
G13-6299	.	4	5	1.0	1.0	S	5.0
N09-13884	.	3	5	2.8	2.0	R	1.0
N10-711	.	4	4	2.0	1.7	S	5.0
N10-764	.	4	4	2.3	4.8	S	5.0
N10-792	.	2	4	3.8	5.0	MS	4.0
N10-1031	.	4	4	1.3	2.8	SS	3.0
N11-7046	.	4	5	3.0	5.0	R	1.0
N11-8042	.	4	4	1.5	1.0	R	1.0
N11-10295	.	4	4	3.5	5.0	R	1.0
N11-10605	.	2	4	2.5	5.0	MS	4.0
SC10-406RR	.	1	4	4.3	5.0	MS	4.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 103 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC †	Florence, SC	Kinston, NC
AGS-738RR	68.4	47.2	62.8	37.4	52.1	32.3	53.1
AG7733	69.8	30.3	50.1	40.4	44.8	31.8	51.7
N7003CN	75.4	49.5	59.8	37.6	52.0	35.0	50.4
NC-Wilder	72.4	59.8	54.4	39.2	53.5	40.6	57.6
G12-2062R2	58.9	45.5	61.2	42.5	53.3	50.7	55.6
G12-2103R2	71.2	46.0	60.8	36.7	52.2	44.9	51.8
G13-1269R2	53.5	45.2	58.1	40.1	33.9	47.1	48.1
G13-2454R2	62.5	41.1	62.0	42.8	61.9	51.4	51.3
G13-2755R2	64.5	46.2	56.4	37.9	59.1	28.5	50.8
G13-6299	75.7	48.1	60.4	40.2	46.9	45.4	52.7
N09-13884	65.8	40.6	49.2	39.2	57.7	47.2	60.5
N10-711	65.9	46.5	53.6	38.0	56.2	38.2	58.8
N10-764	58.1	42.5	59.9	41.1	54.4	64.1	46.0
N10-792	60.1	51.5	59.1	41.3	45.9	43.1	55.3
N10-1031	67.7	30.8	56.6	44.4	50.0	38.0	51.5
N11-7046	68.9	55.2	48.6	37.9	58.0	39.2	52.7
N11-8042	42.0	29.3	53.8	35.4	38.8	39.2	45.2
N11-10295	53.4	56.1	51.1	39.4	49.2	43.1	47.5
N11-10605	57.0	48.9	52.4	31.8	55.8	41.6	53.2
SC10-406RR	56.5	55.3	57.7	36.1	44.1	45.4	52.9
Mean	63.4	45.8	56.4	39.0	51.0	42.3	52.3
LSD(0.05)	11.8	9.7	7.3	7.5	17.6	6.4	6.9
CV(%)	11.3	12.8	7.7	11.4	20.9	9.2	7.9

† Data not included in the mean: Clemson, SC

TABLE 103 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	47.0	42.3	58.1	49.8
AG7733	21.8	46.4	27.0	40.8
N7003CN	50.5	41.8	58.4	50.9
NC-Wilder	48.4	51.9	61.3	53.9
G12-2062R2	52.4	44.4	51.1	51.4
G12-2103R2	37.4	50.9	51.2	50.1
G13-1269R2	46.3	38.4	38.4	46.2
G13-2454R2	49.3	42.4	55.6	50.9
G13-2755R2	46.2	53.0	51.9	48.4
G13-6299	45.9	43.6		51.8
N09-13884	36.4	38.4	50.4	47.6
N10-711	38.1	41.9	50.7	48.0
N10-764	47.8	41.5	57.2	50.9
N10-792	35.6	43.0	51.9	49.0
N10-1031	44.0	41.6	50.3	47.2
N11-7046	50.2	42.2	55.8	50.1
N11-8042	24.2	34.7	40.4	38.2
N11-10295	42.4	37.1	51.1	46.8
N11-10605	32.9	45.6	53.6	46.2
SC10-406RR	32.2	42.7	49.3	47.6
Mean	41.5	43.2	50.7	48.3
LSD(0.05)	8.8	8.0	9.2	5.7
CV(%)	12.8	10.2	11.0	15.2

† Data not included in the mean: Clemson, SC

TABLE 104 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	10/19	10/12	10/22	10/26	11/1	10/30	10/28
AG7733	8	1	2	0	0	1	-1
N7003CN	9	0	2	1	1	1	4
NC-Wilder	9	-1	-4	2	1	1	0
G12-2062R2	0	1	2	2	1	-1	1
G12-2103R2	8	6	-2	5	0	0	5
G13-1269R2	-3	1	-2	0	-1	-1	0
G13-2454R2	1	3	1	5	0	1	0
G13-2755R2	-2	1	-6	-1	-1	0	1
G13-6299	10	2	1	0	0	0	1
N09-13884	8	3	-2	3	0	1	3
N10-711	10	2	-5	7	1	1	7
N10-764	-3	0	2	0	-1	0	-2
N10-792	0	4	-2	6	1	2	1
N10-1031	5	-3	-3	0	0	0	-1
N11-7046	9	-3	-5	3	-2	-2	3
N11-8042	-5	1	-2	0	-1	1	-3
N11-10295	9	1	-4	4	1	-1	1
N11-10605	2	-3	0	0	-2	2	1
SC10-406RR	9	1	2	3	2	1	5
Mean	4	1	-1	2	0	0	1
LSD(0.05)	1	2	8	2	2	4	2
CV(%)	14	141	369	61	778	801	82

TABLE 104 - RELATIVE MATURITY (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	*Plymouth, NC*	*Tifton, GA*	*Test Mean*
AGS-738RR	10/17	10/11	10/22
AG7733	6	3	2
N7003CN	2	0	2
NC-Wilder	3	1	1
G12-2062R2	1	1	1
G12-2103R2	7	2	3
G13-1269R2	2	-8	-1
G13-2454R2	5	2	2
G13-2755R2	3	-2	-1
G13-6299	2		2
N09-13884	4	-6	2
N10-711	7	6	4
N10-764	0	-4	-1
N10-792	6	3	2
N10-1031	1	-7	-1
N11-7046	-1	-6	0
N11-8042	1	-3	-1
N11-10295	4	-2	1
N11-10605	1	-6	-1
SC10-406RR	6	2	3
Mean	3	-1	1
LSD(0.05)	2	.	2
CV(%)	30	0	305

TABLE 105 - PLANT HEIGHT (INCHES)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	39	26	34	34	35	29	44
AG7733	39	18	33	34	34	25	37
N7003CN	39	24	34	39	38	29	38
NC-Wilder	38	28	30	35	36	34	35
G12-2062R2	42	25	34	35	37	34	44
G12-2103R2	39	24	32	38	39	34	39
G13-1269R2	41	30	30	37	39	37	45
G13-2454R2	40	27	27	39	40	39	52
G13-2755R2	39	26	28	39	39	27	47
G13-6299	38	23	32	37	38	37	46
N09-13884	40	33	34	38	38	39	41
N10-711	37	25	28	35	38	27	42
N10-764	38	23	34	32	35	36	39
N10-792	42	27	31	34	39	34	48
N10-1031	36	25	30	35	38	31	39
N11-7046	41	26	30	40	37	33	42
N11-8042	38	27	29	34	38	35	45
N11-10295	46	33	32	37	41	37	46
N11-10605	34	25	34	34	37	30	38
SC10-406RR	46	35	31	35	38	38	46
Mean	40	27	31	36	38	33	43
LSD(0.05)	3	5	9	5	3	9	
CV(%)	5	11	17	7	5	17	

TABLE 105 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	27	40	31	34
AG7733	29	39	22	31
N7003CN	29	44	33	35
NC-Wilder	28	41	31	34
G12-2062R2	24	43	32	35
G12-2103R2	26	43	33	35
G13-1269R2	27	46	31	36
G13-2454R2	28	41	34	36
G13-2755R2	25	44	29	34
G13-6299	33	43	.	35
N09-13884	29	41	34	37
N10-711	22	37	30	32
N10-764	25	41	31	34
N10-792	21	41	35	35
N10-1031	26	35	30	33
N11-7046	32	46	31	35
N11-8042	24	41	30	34
N11-10295	30	45	33	38
N11-10605	22	43	27	33
SC10-406RR	29	43	35	38
Mean	27	42	31	35
LSD(0.05)	.	4	3	2
CV(%)	.	5	5	11

TABLE 106 - PLANT LODGING (1-5)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	2.0	1.0	2.3	1.5	3.7	1.0	2.5
AG7733	2.0	1.0	1.3	1.3	3.0	2.0	1.7
N7003CN	1.7	1.0	3.7	2.3	4.0	2.7	2.5
NC-Wilder	3.0	1.0	2.0	2.8	3.7	2.3	2.7
G12-2062R2	2.3	1.0	2.7	2.3	2.7	2.3	2.2
G12-2103R2	1.0	1.0	1.0	1.3	3.0	1.7	2.2
G13-1269R2	2.0	1.0	2.3	2.5	3.3	4.7	2.5
G13-2454R2	1.7	1.0	3.0	2.3	4.0	3.3	2.0
G13-2755R2	1.3	1.0	1.0	1.3	2.3	2.0	2.0
G13-6299	2.0	1.0	3.0	2.5	4.0	3.0	2.5
N09-13884	2.0	1.3	1.3	2.3	4.0	3.7	2.2
N10-711	1.0	1.0	1.0	1.3	2.7	1.7	1.5
N10-764	2.3	1.0	1.7	1.8	3.3	2.7	1.7
N10-792	1.7	1.0	1.0	1.0	3.7	2.0	1.5
N10-1031	1.7	1.0	2.0	1.5	3.7	1.0	2.5
N11-7046	2.3	1.0	2.7	3.0	4.0	1.3	2.5
N11-8042	1.0	1.0	1.0	1.5	2.7	3.0	2.0
N11-10295	3.0	2.0	1.7	1.5	4.0	2.3	2.0
N11-10605	3.7	1.0	3.7	2.8	4.0	3.7	3.2
SC10-406RR	2.0	1.3	1.0	1.0	3.0	1.7	1.5
Mean	2.0	1.1	2.0	1.9	3.4	2.4	2.2
LSD(0.05)	0.8	0.5	0.8	0.5	0.9	2.0	0.4
CV(%)	24.8	25.5	25.3	14.1	16.1	51.3	9.6

TABLE 106 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	2.0	1.7	3.0	2.0
AG7733	1.0	1.7	1.0	1.6
N7003CN	2.0	2.2	3.3	2.5
NC-Wilder	1.0	2.2	4.0	2.5
G12-2062R2	1.0	2.0	4.0	2.3
G12-2103R2	1.0	1.5	2.3	1.6
G13-1269R2	2.0	2.0	3.7	2.6
G13-2454R2	1.0	1.7	3.0	2.3
G13-2755R2	1.0	1.5	1.3	1.5
G13-6299	2.0	2.5	.	2.6
N09-13884	2.0	1.7	4.0	2.5
N10-711	1.0	1.2	1.7	1.4
N10-764	1.0	1.2	3.0	2.0
N10-792	1.0	1.0	2.3	1.6
N10-1031	1.0	1.0	1.7	1.7
N11-7046	3.0	3.0	4.3	2.7
N11-8042	1.0	1.5	1.7	1.6
N11-10295	2.0	3.0	3.7	2.5
N11-10605	1.0	2.2	5.0	3.1
SC10-406RR	1.0	1.5	3.3	1.8
Mean	1.4	1.8	3.0	2.1
LSD(0.05)	.	0.4	1.0	0.5
CV(%)	.	11.6	20.0	34.9

TABLE 107 - SEED QUALITY (1-5)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	1.3	1.0	1.5	2.0	.	1.0	1.5
AG7733	1.0	1.0	1.5	1.5	.	1.3	1.5
N7003CN	1.3	1.0	1.8	2.0	.	1.7	1.5
NC-Wilder	1.0	1.0	1.5	1.5	.	1.0	1.0
G12-2062R2	1.3	1.0	1.5	1.5	.	1.0	1.5
G12-2103R2	1.0	1.0	1.5	1.5	.	1.0	1.5
G13-1269R2	1.0	1.0	1.5	2.0	.	1.0	1.5
G13-2454R2	1.0	1.0	1.7	2.0	.	1.0	1.5
G13-2755R2	1.0	1.0	1.5	2.0	.	1.7	1.5
G13-6299	1.0	1.0	1.5	2.0	.	1.0	1.5
N09-13884	1.7	1.0	1.5	1.5	.	1.3	2.0
N10-711	1.0	1.0	1.5	1.5	.	1.0	1.5
N10-764	1.0	1.0	1.5	1.5	.	1.0	1.5
N10-792	1.0	1.0	1.7	2.0	.	1.3	2.0
N10-1031	1.0	1.0	1.5	2.0	.	1.3	1.5
N11-7046	1.0	1.0	1.7	2.5	.	1.3	1.5
N11-8042	1.0	1.0	1.5	2.0	.	1.3	2.0
N11-10295	1.0	1.0	1.5	1.5	.	1.0	1.5
N11-10605	1.3	1.0	1.7	1.5	.	1.3	2.0
SC10-406RR	1.7	1.0	1.5	2.0	.	1.0	1.5
Mean	1.1	1.0	1.6	1.8	.	1.2	1.6
LSD(0.05)	0.5	.	0.3	.	.	0.6	.
CV(%)	27.9	.	11.6	.	.	32.7	.

TABLE 107 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	1.0	1.5	1.5	1.4
AG7733	1.0	2.0	1.7	1.4
N7003CN	1.3	1.5	1.8	1.6
NC-Wilder	1.0	1.5	1.5	1.3
G12-2062R2	1.0	2.0	1.5	1.4
G12-2103R2	1.0	2.0	1.7	1.3
G13-1269R2	1.0	1.5	1.8	1.4
G13-2454R2	1.0	2.5	1.5	1.4
G13-2755R2	1.0	1.5	1.5	1.4
G13-6299	1.0	1.5	.	1.3
N09-13884	1.0	1.5	1.5	1.5
N10-711	1.0	1.5	1.5	1.3
N10-764	1.0	1.5	1.5	1.3
N10-792	1.0	2.5	1.8	1.5
N10-1031	1.0	1.5	1.5	1.4
N11-7046	1.0	2.0	1.8	1.5
N11-8042	1.0	1.5	1.5	1.4
N11-10295	1.0	2.0	1.5	1.3
N11-10605	1.0	1.5	1.5	1.4
SC10-406RR	1.0	1.5	1.5	1.4
Mean	1.0	1.7	1.6	1.4
LSD(0.05)	0.2	.	0.3	0.2
CV(%)	12.7	.	13.0	18.8

TABLE 108 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	14.7	15.0	15.6	12.1	.	16.2	15.9
AG7733	18.6	15.5	18.7	16.5	.	18.8	17.2
N7003CN	18.3	16.1	19.0	15.9	.	20.4	20.0
NC-Wilder	17.7	14.5	18.4	14.5	.	18.7	17.5
G12-2062R2	14.2	13.8	18.2	15.0	.	18.7	17.7
G12-2103R2	16.8	16.7	21.1	17.5	.	20.2	19.0
G13-1269R2	15.3	13.5	18.5	15.3	.	19.4	18.3
G13-2454R2	15.1	13.8	18.4	15.7	.	20.9	18.0
G13-2755R2	16.6	17.2	19.1	14.9	.	18.6	16.7
G13-6299	14.9	15.3	16.6	13.0	.	16.7	16.5
N09-13884	18.5	15.2	17.4	16.3	.	19.0	18.5
N10-711	16.6	13.3	16.0	15.7	.	17.8	18.0
N10-764	16.1	10.8	18.0	13.6	.	20.7	17.2
N10-792	16.4	12.8	19.8	16.0	.	19.0	19.5
N10-1031	13.1	13.0	13.2	11.4	.	15.7	13.6
N11-7046	13.3	16.2	14.8	12.4	.	15.4	14.2
N11-8042	16.5	16.5	18.9	13.9	.	21.5	17.4
N11-10295	15.0	18.5	15.4	15.0	.	15.3	16.3
N11-10605	14.5	16.6	17.7	13.9	.	18.5	17.3
SC10-406RR	16.7	12.4	17.5	15.4	.	19.6	17.6
Mean	15.9	14.8	17.6	14.7	.	18.6	17.3
LSD(0.05)	1.3	.	1.3	.	.	1.7	.
CV(%)	4.9	.	4.3	.	.	5.6	.

TABLE 108 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	12.5	6.9	11.9	13.5
AG7733	13.9	12.8	12.5	16.1
N7003CN	16.5	12.5	14.1	17.0
NC-Wilder	15.5	13.5	13.6	16.0
G12-2062R2	16.1	10.5	11.8	15.2
G12-2103R2	18.0	14.8	12.5	17.4
G13-1269R2	14.9	12.1	10.3	15.3
G13-2454R2	15.4	12.6	12.6	15.9
G13-2755R2	15.5	12.5	13.1	16.0
G13-6299	12.7	10.3	.	14.0
N09-13884	15.6	12.3	12.3	16.1
N10-711	13.8	12.3	11.5	14.9
N10-764	16.4	12.6	12.9	15.5
N10-792	16.9	13.4	12.8	16.3
N10-1031	12.6	7.8	9.9	12.3
N11-7046	12.9	8.7	10.5	13.1
N11-8042	14.4	11.2	12.3	15.9
N11-10295	13.3	10.9	9.9	14.2
N11-10605	13.3	12.6	11.9	15.1
SC10-406RR	14.7	10.7	11.2	15.2
Mean	14.7	11.5	12.0	15.2
LSD(0.05)	1.3	.	0.9	1.1
CV(%)	5.2	.	4.3	8.3

TABLE 109 - OIL (%)†
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	19.0	.	.	19.5	.	19.1	19.5
AG7733	17.6	.	.	19.1	.	17.9	20.2
N7003CN	18.8	.	.	19.5	.	18.4	19.4
NC-Wilder	19.8	.	.	19.2	.	19.9	20.1
G12-2062R2	17.5	.	.	18.0	.	18.0	18.5
G12-2103R2	18.4	.	.	18.5	.	18.7	19.1
G13-1269R2	17.8	.	.	18.0	.	17.5	19.1
G13-2454R2	18.8	.	.	19.3	.	19.0	19.5
G13-2755R2	18.0	.	.	18.2	.	18.3	19.0
G13-6299	18.6	.	.	19.5	.	19.4	19.6
N09-13884	18.4	.	.	18.7	.	17.5	19.0
N10-711	17.8	.	.	18.9	.	18.7	19.6
N10-764	19.4	.	.	19.4	.	18.5	20.3
N10-792	19.1	.	.	20.0	.	18.9	18.2
N10-1031	18.4	.	.	19.1	.	18.5	19.1
N11-7046	18.4	.	.	18.9	.	18.3	19.1
N11-8042	17.7	.	.	19.5	.	18.0	20.3
N11-10295	17.7	.	.	18.6	.	18.5	19.4
N11-10605	18.3	.	.	18.9	.	18.3	19.2
SC10-406RR	18.3	.	.	18.7	.	17.9	20.5
Mean	18.4	.	.	19.0	.	18.5	19.4
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 109 - OIL (%)† (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	.	18.3	.	19.1
AG7733	.	17.8	.	18.5
N7003CN	.	18.7	.	19.0
NC-Wilder	.	19.5	.	19.7
G12-2062R2	.	17.0	.	17.8
G12-2103R2	.	18.6	.	18.7
G13-1269R2	.	17.1	.	17.9
G13-2454R2	.	18.8	.	19.1
G13-2755R2	.	18.5	.	18.4
G13-6299	.	18.3	.	19.1
N09-13884	.	16.1	.	17.9
N10-711	.	17.7	.	18.5
N10-764	.	18.1	.	19.1
N10-792	.	18.0	.	18.8
N10-1031	.	17.0	.	18.4
N11-7046	.	18.2	.	18.6
N11-8042	.	17.5	.	18.6
N11-10295	.	16.7	.	18.2
N11-10605	.	18.0	.	18.5
SC10-406RR	.	17.7	.	18.6
Mean	.	17.9	.	18.6
LSD(0.05)	.	.	.	0.6
CV(%)	.	.	.	2.6

TABLE 110 - PROTEIN (%)†
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Calhoun, GA	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC
AGS-738RR	35.4	.	.	33.4	.	36.1	34.3
AG7733	37.5	.	.	33.6	.	36.6	31.4
N7003CN	35.5	.	.	34.3	.	36.5	34.6
NC-Wilder	36.0	.	.	34.3	.	35.5	33.5
G12-2062R2	38.8	.	.	36.7	.	38.6	36.7
G12-2103R2	36.5	.	.	35.6	.	37.7	35.5
G13-1269R2	38.4	.	.	36.7	.	38.8	35.1
G13-2454R2	36.1	.	.	34.2	.	36.6	32.1
G13-2755R2	37.2	.	.	36.6	.	38.0	35.6
G13-6299	36.2	.	.	34.4	.	36.7	35.3
N09-13884	36.5	.	.	35.7	.	38.0	34.7
N10-711	38.1	.	.	35.5	.	37.8	34.7
N10-764	35.8	.	.	34.9	.	37.6	33.9
N10-792	36.9	.	.	34.0	.	38.7	36.6
N10-1031	37.3	.	.	35.1	.	38.5	35.4
N11-7046	36.2	.	.	35.2	.	37.5	35.0
N11-8042	39.3	.	.	35.0	.	39.5	35.0
N11-10295	38.3	.	.	36.7	.	37.3	35.7
N11-10605	34.3	.	.	35.2	.	37.2	33.9
SC10-406RR	36.6	.	.	36.5	.	38.1	33.0
Mean	36.8	.	.	35.2	.	37.6	34.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 110 - PROTEIN (%)† (continued)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	Plains, GA	Plymouth, NC	Tifton, GA	Test Mean
AGS-738RR	.	35.2	.	34.9
AG7733	.	37.0	.	35.2
N7003CN	.	35.6	.	35.3
NC-Wilder	.	35.8	.	35.0
G12-2062R2	.	38.2	.	37.8
G12-2103R2	.	35.9	.	36.2
G13-1269R2	.	38.4	.	37.5
G13-2454R2	.	35.5	.	34.9
G13-2755R2	.	35.2	.	36.5
G13-6299	.	37.4	.	36.0
N09-13884	.	40.6	.	37.1
N10-711	.	38.5	.	36.9
N10-764	.	38.1	.	36.1
N10-792	.	38.5	.	36.9
N10-1031	.	38.4	.	36.9
N11-7046	.	36.7	.	36.1
N11-8042	.	37.7	.	37.3
N11-10295	.	39.2	.	37.4
N11-10605	.	36.1	.	35.3
SC10-406RR	.	37.1	.	36.2
Mean	.	37.2	.	36.3
LSD(0.05)	.	.	.	1.2
CV(%)	.	.	.	2.5

TABLE 111 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP VII 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AGS-738RR	G99-4158 x P97M50	Commercial		RR1	
2	AG7733	Commercial check	Commercial		RR1	
3	N7003CN	Cook x Anand	Carter		Conv	Resistant to all field races of SCN
4	NC-Wilder	R97-1634 x N97-9693	Carter		Conv	12.5% exotic from PI 416937-USDA
5	G13-2021R2	G09PR-54329R2 x [G00-3213(4) x (G00-3209 x G01-PR68)]	Li	F5d	RR2	High Protein or Oil
6	G14-1408R2	G10PR-56248 R2Y x G10PR-56389 R2Y	Li	F5d	RR2	
7	G14-1632R2	G10PR-10 x G10PR-56389 R2Y	Li	F5d	RR2	
8	G14-1665R2	G10PR-10 x G10PR-56389 R2Y	Li	F5d	RR2	
9	G14-2478R2	{[G00-3213(3) x RR2Y] x [G00-3213(2) x (G00-3209 x G01-PR68)]} x {[G00-3213(3) x [97M50(3) x L85-2378]]}	Li	F5d	RR2	
10	G14-2622R2	R02-3065 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
11	G14-4364R2	N05-7462 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
12	G15PR-302	[G00-3213 (4) x (Benning low lin/low palm)] x [G00-3213 (4) x (17D x S08-14788)]	Li	BC4 F3d	Conv	HO
13	G15PR-342	{G00-3880 (4) x [Benning low lin/low palm]} x {G00-3880(4) x [G00-3213 x (17D x S08-14788)]}	Li	BC4 F3d	Conv	HO
14	G15PRLL-989	NCC06-899 x [G00-3213(2) x A5547-127 Liberty]	Li	F6d	LL	
15	N11-12528	NC-Roy x PI603308B	Carter	F4	Conv	Diversity, 50% exotic
16	STPR14-411	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
17	STPR14-459	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic
18	STPR14-504	N6001 x Young	Carter	F4	Conv	Diversity-Protein, 12.5% exotic

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 112 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST VII 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 2	Race 3	Race 5	SC RATING	SC SCORE
AGS-738RR	53.5	2	4	0	2.0	38	.	1	4	R	1
AG7733	45.7	12	10	3	1.7	35	.	5	5	R	1
N7003CN	47.0	9	10	4	2.3	39	.	1	1	MS	4
NC-Wilder	54.6	1	3	4	2.9	37	.	5	5	S	5
G13-2021R2	45.9	11	12	-3	2.7	43	.	1	3	R	1
G14-1408R2	47.8	7	9	2	2.8	44	.	5	5	R	1
G14-1632R2	44.1	14	12	-1	2.4	43	.	4	4	S	5
G14-1665R2	45.2	13	13	-3	2.8	42	.	5	5	S	5
G14-2478R2	48.1	6	10	-2	2.1	39	.	2	4	S	5
G14-2622R2	52.4	3	8	-2	2.0	39	.	5	5	S	5
G14-4364R2	49.6	5	8	1	2.2	38	.	5	4	R	1
G15PR-302	41.1	18	15	1	2.2	38	.	3	5	SS	3
G15PR-342	46.0	10	8	4	2.4	38	.	3	2	MS	4
G15PRLL-989	50.9	4	7	0	2.5	42	.	5	4	MS	4
N11-12528	47.3	8	8	-1	2.4	38	.	4	5	MS	4
STPR14-411	43.1	16	12	2	2.1	37	.	4	5	S	5
STPR14-459	43.8	15	11	5	2.3	40	.	5	4	MS	4
STPR14-504	43.0	17	11	4	2.2	37	.	5	4	MS	4
Mean	47.2	.	.	1	2.3	39	.	.	.		.
LSD(0.05)	10.5	.	.	5	.	4	.	.	.		.
CV(%)	19.4	.	.	452	.	10	.	.	.		.

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

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

TABLE 112 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST VII 2017

STRAIN/ VARIETY	*SEED QUALITY*	*SEED SIZE*	*% PROTEIN‡*	*% OIL‡*	*FL COLOR*	*PUB. COLOR*	*POD COLOR*
AGS-738RR	1.5	14.2	35.5	19.2			
AG7733	1.3	18.0	35.3	18.7			
N7003CN	1.5	18.0	35.3	19.2	W	T	
NC-Wilder	1.3	17.1	35.5	19.5	W	G	
G13-2021R2	1.3	17.0	38.4	18.1	W	T	T
G14-1408R2	1.4	14.8	38.8	17.6	W	T	T
G14-1632R2	1.3	16.9	35.7	18.6	P	T	T
G14-1665R2	1.5	15.0	38.6	17.3	P	T	T
G14-2478R2	1.4	16.4	37.3	18.7	W	T	T
G14-2622R2	1.3	16.8	36.7	18.3	P	T	T
G14-4364R2	1.2	17.3	35.2	18.5	W	T	T
G15PR-302	1.5	16.5	36.3	20.5	W	T	T
G15PR-342	1.6	15.6	35.3	19.8	P	T	T
G15PRLL-989	1.3	17.8	36.7	18.7	W	T	T
N11-12528	1.3	14.1	37.9	18.0	W	G	
STPR14-411	1.5	17.3	37.8	18.3	W	G	
STPR14-459	1.8	16.9	37.9	18.6	W	G	
STPR14-504	1.7	18.0	37.8	19.2	W	G	
Mean	1.4	16.5	36.8	18.7			
LSD(0.05)	0.5	1.4	0.9	1.3			
CV(%)	29.0	9.2	2.0	5.7			

TABLE 113 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	68.8	44.7	57.3	52.2	44.7	53.5
AG7733	65.0	34.9	50.0	37.6	41.0	45.7
N7003CN	60.8	37.7	42.1	52.7	41.5	47.0
NC-Wilder	74.8	45.1	54.7	51.9	46.4	54.6
G13-2021R2	47.4	55.3	41.2	50.6	34.8	45.9
G14-1408R2	47.1	54.0	46.6	51.8	39.6	47.8
G14-1632R2	42.0	45.1	48.4	47.5	37.5	44.1
G14-1665R2	44.2	55.2	41.5	50.2	34.8	45.2
G14-2478R2	56.5	43.8	48.8	49.2	42.5	48.1
G14-2622R2	61.1	63.2	46.0	50.8	40.9	52.4
G14-4364R2	60.3	43.8	49.7	48.8	45.2	49.6
G15PR-302	60.9	29.9	42.6	35.4	36.7	41.1
G15PR-342	66.9	23.4	42.9	50.9	45.9	46.0
G15PRLL-989	66.7	47.8	47.7	50.5	41.9	50.9
N11-12528	70.9	22.9	53.2	44.3	45.1	47.3
STPR14-411	62.4	19.6	45.0	45.0	43.6	43.1
STPR14-459	70.0	21.0	44.4	42.0	41.8	43.8
STPR14-504	63.2	19.6	46.0	40.4	45.6	43.0
Mean	60.5	39.3	47.1	47.3	41.6	47.2
LSD(0.05)	11.4	6.3	7.4	6.7	6.2	10.5
CV(%)	11.3	9.7	9.0	8.6	8.9	19.4

TABLE 114 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VII 2017

STRAIN/ VARIETY	*Athens, GA(A)*	*Florence, SC*	*Kinston, NC*	*Plains, GA*	*Plymouth, NC*	*Test Mean*
AGS-738RR	10/27	11/1	10/26	.	10/19	10/26
AG7733	0	3	3	.	4	3
N7003CN	1	5	7	.	3	4
NC-Wilder	1	9	3	.	4	4
G13-2021R2	-8	-4	2	.	-2	-3
G14-1408R2	-1	3	4	.	3	2
G14-1632R2	-7	-1	2	.	3	-1
G14-1665R2	-9	-4	0	.	-1	-3
G14-2478R2	-8	-1	4	.	-1	-2
G14-2622R2	-3	-6	-1	.	-1	-2
G14-4364R2	-1	-1	4	.	2	1
G15PR-302	-8	4	6	.	2	1
G15PR-342	1	9	5	.	3	4
G15PRLL-989	1	-1	1	.	-1	0
N11-12528	-1	-2	-1	.	-2	-1
STPR14-411	0	3	6	.	-1	2
STPR14-459	0	17	3	.	-1	5
STPR14-504	0	5	6	.	3	4
Mean	-2	2	3	.	1	1
LSD(0.05)	1	11	5	.	2	5
CV(%)	26	293	78	.	116	452

TABLE 115 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	39	38	43	27	43	38
AG7733	39	31	38	21	43	35
N7003CN	37	41	48	30	39	39
NC-Wilder	38	38	38	29	40	37
G13-2021R2	43	47	45	33	46	43
G14-1408R2	44	42	55	36	45	44
G14-1632R2	48	44	45	29	45	43
G14-1665R2	45	43	42	30	43	42
G14-2478R2	40	40	41	26	44	39
G14-2622R2	37	36	46	28	49	39
G14-4364R2	37	40	38	31	45	38
G15PR-302	39	39	39	29	43	38
G15PR-342	37	38	50	30	39	38
G15PRLL-989	38	45	54	34	43	42
N11-12528	37	40	49	26	40	38
STPR14-411	38	35	47	26	40	37
STPR14-459	39	39	49	29	46	40
STPR14-504	36	36	44	31	40	37
Mean	39	40	45	29	43	39
LSD(0.05)	5	6	.	.	9	4
CV(%)	7	9	.	.	10	10

TABLE 116 - PLANT LODGING (1-5)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	2.0	2.3	2.3	2.0	2.0	2.0
AG7733	1.7	2.3	1.8	1.0	1.5	1.7
N7003CN	2.0	3.3	2.8	2.0	1.8	2.3
NC-Wilder	3.0	4.0	2.5	2.0	2.5	2.9
G13-2021R2	1.7	4.3	3.0	2.0	2.3	2.7
G14-1408R2	3.0	3.7	2.8	2.0	2.3	2.8
G14-1632R2	2.3	3.3	2.0	2.0	2.5	2.4
G14-1665R2	2.7	4.3	2.5	2.0	2.3	2.8
G14-2478R2	2.3	2.3	2.3	2.0	2.0	2.1
G14-2622R2	2.0	2.7	2.3	1.0	2.0	2.0
G14-4364R2	2.0	3.3	2.3	1.0	2.3	2.2
G15PR-302	1.3	3.7	2.3	1.0	2.3	2.2
G15PR-342	2.7	3.0	2.5	2.0	1.8	2.4
G15PRLL-989	2.0	4.0	2.5	1.0	2.3	2.5
N11-12528	3.0	2.3	2.5	1.0	3.0	2.4
STPR14-411	2.0	2.0	3.0	1.0	2.5	2.1
STPR14-459	2.0	3.3	2.3	2.0	2.3	2.3
STPR14-504	2.0	2.3	2.8	2.0	2.3	2.2
Mean	2.2	3.1	2.4	1.6	2.2	2.3
LSD(0.05)	0.8	2.2	0.7	.	0.7	0.7
CV(%)	22.3	42.1	12.8	.	14.2	33.8

TABLE 117 - SEED QUALITY (1-5)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	1.7	1.0	1.5	1.0	2.5	1.5
AG7733	1.0	2.0	1.5	1.0	1.0	1.3
N7003CN	1.0	1.7	2.0	1.0	2.0	1.5
NC-Wilder	1.0	1.3	1.5	1.0	1.5	1.3
G13-2021R2	1.0	1.3	1.5	1.0	1.5	1.3
G14-1408R2	1.0	2.0	1.5	1.0	1.5	1.4
G14-1632R2	1.0	1.3	1.5	1.0	2.0	1.3
G14-1665R2	1.0	1.7	2.0	1.0	2.0	1.5
G14-2478R2	1.0	1.7	1.5	1.0	2.0	1.4
G14-2622R2	1.0	1.3	2.0	1.0	1.5	1.3
G14-4364R2	1.0	1.0	1.5	1.0	1.5	1.2
G15PR-302	1.0	2.3	1.5	1.0	1.5	1.5
G15PR-342	1.0	2.3	2.5	1.0	1.5	1.6
G15PRLL-989	1.0	1.3	1.5	1.0	1.5	1.3
N11-12528	1.0	1.7	1.5	1.0	1.5	1.3
STPR14-411	1.3	2.0	1.5	1.0	1.5	1.5
STPR14-459	1.3	2.7	2.0	1.0	2.0	1.8
STPR14-504	1.0	3.3	1.5	1.0	1.5	1.7
Mean	1.1	1.8	1.7	1.0	1.7	1.4
LSD(0.05)	0.4	0.8	.		.	0.5
CV(%)	21.1	27.6	.	0.0	.	29.0

TABLE 118 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	14.7	16.6	13.9	13.1	11.7	14.2
AG7733	18.3	21.5	20.0	15.9	14.0	18.0
N7003CN	18.6	19.8	20.8	16.7	14.3	18.0
NC-Wilder	17.2	20.4	18.5	14.7	14.7	17.1
G13-2021R2	16.7	19.5	20.3	15.6	13.8	17.0
G14-1408R2	14.0	16.8	17.8	14.2	11.6	14.8
G14-1632R2	15.9	19.9	18.7	16.2	14.1	16.9
G14-1665R2	13.6	17.9	16.6	15.2	11.4	15.0
G14-2478R2	16.0	18.2	20.2	15.0	14.0	16.4
G14-2622R2	18.0	19.1	17.5	14.7	14.0	16.8
G14-4364R2	18.6	18.5	20.0	15.4	15.0	17.3
G15PR-302	16.9	19.2	18.8	14.4	13.0	16.5
G15PR-342	15.7	18.5	16.2	14.5	12.4	15.6
G15PRLL-989	18.9	21.0	19.2	15.2	13.8	17.8
N11-12528	14.3	15.8	15.6	13.1	12.0	14.1
STPR14-411	15.8	20.8	19.8	16.0	14.5	17.3
STPR14-459	15.5	21.8	17.5	15.2	13.7	16.9
STPR14-504	16.8	23.1	20.6	15.2	14.8	18.0
Mean	16.4	19.4	18.4	15.0	13.5	16.5
LSD(0.05)	1.4	3.9	.	1.2	.	1.4
CV(%)	5.0	12.3	.	4.6	.	9.2

TABLE 119 - OIL (%)†
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	19.3	18.9	19.5	19.6	18.7	19.2
AG7733	18.1	18.1	19.5	19.9	17.7	18.7
N7003CN	19.0	18.8	19.2	19.5	19.4	19.2
NC-Wilder	19.3	18.7	19.9	20.2	19.5	19.5
G13-2021R2	17.8	17.9	18.0	19.6	17.3	18.1
G14-1408R2	17.4	17.2	18.0	18.0	17.4	17.6
G14-1632R2	18.8	17.7	18.9	19.5	18.5	18.6
G14-1665R2	17.1	16.7	17.6	18.2	17.0	17.3
G14-2478R2	18.3	18.6	18.4	19.9	18.4	18.7
G14-2622R2	18.4	19.0	16.7	19.3	18.2	18.3
G14-4364R2	18.4	18.7	18.8	18.8	17.8	18.5
G15PR-302	18.2	18.1	18.7	28.3	19.3	20.5
G15PR-342	19.8	19.4	19.9	20.2	19.8	19.8
G15PRLL-989	18.3	18.7	18.9	19.1	18.4	18.7
N11-12528	18.7	16.9	18.6	18.2	17.7	18.0
STPR14-411	18.8	16.1	18.7	19.2	18.8	18.3
STPR14-459	18.8	17.6	19.1	19.3	18.5	18.6
STPR14-504	19.1	18.2	19.6	19.8	19.1	19.2
Mean	18.5	18.1	18.8	19.8	18.4	18.7
LSD(0.05)	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	5.7

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

TABLE 120 - PROTEIN (%)†
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	35.1	36.7	34.7	34.6	36.7	35.5
AG7733	35.1	36.5	33.6	33.9	37.3	35.3
N7003CN	35.1	36.1	35.3	34.3	35.7	35.3
NC-Wilder	35.2	37.2	35.6	34.4	35.1	35.5
G13-2021R2	38.8	39.0	37.6	36.5	40.1	38.4
G14-1408R2	39.3	39.7	37.9	38.6	38.6	38.8
G14-1632R2	35.4	37.5	34.9	35.0	35.7	35.7
G14-1665R2	38.7	40.2	38.1	37.5	38.3	38.6
G14-2478R2	37.4	38.2	36.9	36.7	37.5	37.3
G14-2622R2	37.0	37.3	35.6	35.9	37.8	36.7
G14-4364R2	35.4	35.8	35.2	33.9	35.9	35.2
G15PR-302	36.8	37.0	.	35.1	.	36.3
G15PR-342	34.5	36.9	.	34.7	.	35.3
G15PRLL-989	36.4	37.1	36.3	36.1	37.7	36.7
N11-12528	36.6	40.3	36.6	38.2	37.8	37.9
STPR14-411	35.8	40.8	37.7	37.0	37.6	37.8
STPR14-459	37.0	40.2	37.4	36.7	38.3	37.9
STPR14-504	37.0	40.3	36.7	36.7	38.2	37.8
Mean	36.5	38.1	36.3	35.9	37.4	36.8
LSD(0.05)	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	2.0

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

SUMMARY OF SEED FATTY ACIDS (%)†
PRELIMINARY TEST VII 2017

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AGS-738RR	11.0	3.7	26.0	52.0	7.3
AG7733	12.0	4.2	24.0	53.0	7.1
N7003CN	12.0	3.2	23.0	54.0	7.6
NC-Wilder	13.0	3.3	23.0	54.0	6.9
G15PR-302	7.9	3.3	75.0	11.0	3.4
G15PR-342	7.9	3.6	79.0	6.9	3.1
Mean	11.0	3.6	42.0	38.0	5.9
LSD(0.05)	0.4	0.3	7.7	6.7	0.7
CV(%)	2.9	7.0	14.0	13.0	9.2

†Fatty acid percentage in seed oil reported beginning in 2017.

SEED PALMITIC ACID (%)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	10.9	10.7	11.1	11.6	11.1	11.1
AG7733	12.2	11.8	12.2	12.2	12.1	12.1
N7003CN	12.1	12.0	12.3	12.4	12.0	12.1
NC-Wilder	12.6	12.3	12.7	12.8	12.7	12.6
G15PR-302	7.8	8.6	7.8	7.6	7.7	7.9
G15PR-342	8.6	7.5	7.7	7.5	7.9	7.9
Mean	10.7	10.5	10.6	10.7	10.6	10.6
LSD(0.05)	.	.	.	.	.	0.4
CV(%)	.	.	.	.	.	2.9

SEED STEARIC ACID (%)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	4.3	4.2	3.3	3.4	3.3	3.7
AG7733	4.4	4.3	3.7	4.3	4.4	4.2
N7003CN	3.4	3.2	3.1	3.1	3.2	3.2
NC-Wilder	3.9	3.1	3.3	3.0	3.1	3.3
G15PR-302	3.8	3.5	2.9	3.4	3.1	3.3
G15PR-342	3.9	3.5	3.7	3.6	3.2	3.6
Mean	4.0	3.6	3.3	3.5	3.4	3.6
LSD(0.05)	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	7.0

SEED OLEIC ACID (%)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	20.9	32.2	28.5	22.3	25.3	25.9
AG7733	21.2	28.6	23.7	21.6	22.9	23.6
N7003CN	20.7	25.3	23.9	20.5	23.4	22.7
NC-Wilder	22.2	27.8	25.9	21.7	19.7	23.5
G15PR-302	78.1	54.4	80.9	80.8	79.7	74.8
G15PR-342	68.2	80.9	80.7	82.2	80.8	78.6
Mean	38.6	41.5	43.9	41.5	42.0	41.5
LSD(0.05)	.	.	.	.	.	7.7
CV(%)	.	.	.	.	.	14.2

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	55.9	46.7	50.2	54.8	52.8	52.1
AG7733	54.6	49.2	53.2	54.7	53.4	53.0
N7003CN	55.7	52.6	53.1	56.0	54.2	54.3
NC-Wilder	54.3	50.6	51.6	55.1	56.7	53.7
G15PR-302	6.8	28.9	5.4	5.3	6.3	10.5
G15PR-342	15.7	5.2	5.0	3.8	4.8	6.9
Mean	40.5	38.9	36.4	38.3	38.0	38.4
LSD(0.05)	.	.	.	.	.	6.7
CV(%)	.	.	.	.	.	13.3

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP VII 2017

STRAIN/ VARIETY	Athens, GA(A)	Florence, SC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AGS-738RR	7.9	6.2	7.0	7.9	7.4	7.3
AG7733	7.6	6.1	7.2	7.2	7.2	7.1
N7003CN	8.1	7.0	7.7	7.9	7.3	7.6
NC-Wilder	7.0	6.1	6.5	7.3	7.8	6.9
G15PR-302	3.4	4.6	3.1	2.9	3.3	3.4
G15PR-342	3.6	2.8	2.9	2.9	3.2	3.1
Mean	6.3	5.5	5.7	6.0	6.0	5.9
LSD(0.05)	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	9.2

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TABLE 121 - PARENTAGE OF ENTRIES
UNIFORM GROUP VIII 2017

Ent	*Strain/Variety*	*Parentage*	*Source*	*Fn*	*Trans-genic†*	*Special Traits‡*
1	AGS828RR	Commercial check	Commercial		RR1	
2	N8001	N7001 x Cook	Carter		Conv	Diversity
3	N8002	N7001 x Cook	Carter		Conv	
4	AG7934	Commercial check	Commercial		RR1	
5	G11-1614R2	G99-3211 x (G00-3213 x RR2Y)	Li	F5d	RR2	
6	G12-2259R2	G00-3213 x [G00-3880(3) x RR2Y]	Li	F5d	RR2	High Protein or Oil
7	G12-6386	{G00-3213(3) x [P97M50(3) x L85-2378]}	Li	F5d	Conv	High Protein or Oil
8	G12-6543	G00-3213(3) x [G00-3209 x G01-PR68]	Li	F5d	Conv	High Protein or Oil
9	G13-2114R2	G09PR-54457R2 x {G00-3213(4) x [G00-3209 x G01-PR68]}	Li	F5d	RR2	
10	G13-2369R2	AU02-3104 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	
11	G13-3461R2	NCC02-307 x (G3213 x RR2Y)	Li	F7d	RR2	
12	SC10-399RR	SC98-2070 x SC01-783RR	Fallen		RR1	LJ Trait
13	N14-8537	NMS4-44-329 x N7103	Carter	F4	Conv	Diversity, 25% exotic

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 122 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST VIII 2017

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD† 2017	YIELD† 16-17	YIELD† 15-17	PROTEIN‡ 2017	PROTEIN‡ 16-17	PROTEIN‡ 15-17	OIL‡ 2017	OIL‡ 16-17	OIL‡ 15-17
AGS828RR	5	5	47.7	46.4	48.2	36.1	36.5	36.1	19.0	18.7	18.7
N8001	6	8	47.5	44.9	48.0	37.2	37.0	36.4	17.7	17.8	17.9
N8002	1	3	51.1	47.8	50.2	36.1	36.5	36.2	18.4	18.3	18.3
AG7934	13	9	41.0	43.0	47.8	35.4	35.8	35.6	20.0	19.8	19.6
G11-1614R2	3	7	49.2	49.2	51.8	35.9	35.9	35.4	19.9	19.9	19.7
G12-2259R2	12	10	41.4	44.3	.	38.7	38.3	.	18.1	18.4	.
G12-6386	11	8	42.2	.	.	37.4	.	.	19.1	.	.
G12-6543	10	8	44.9	46.4	.	36.3	36.5	.	19.4	19.4	.
G13-2114R2	2	5	50.8	.	.	36.2	.	.	18.5	.	.
G13-2369R2	8	7	45.9	.	.	36.6	.	.	19.0	.	.
G13-3461R2	4	7	48.4	.	.	34.8	.	.	19.0	.	.
SC10-399RR	9	8	45.1	.	.	36.0	.	.	18.7	.	.
N14-8537	7	7	46.1	.	.	37.4	.	.	18.0	.	.
Mean	.	.	46.3	.	.	36.4	.	.	18.8	.	.
LSD(0.05)	.	.	7.4	.	.	1.2	.	.	0.6	.	.
CV(%)	.	.	15.9	.	.	2.6	.	.	2.5	.	.

† Data not included in mean: 2017 - Clemson, SC
2016 - Warsau, VA
2015 - Clayton, NC; Clemson, SC; Tallassee, AL(A); Tallassee, AL(B)

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

TABLE 123 - GENERAL SUMMARY OF BOTANICAL TRAITS
UNIFORM TEST VIII 2017

STRAIN/ VARIETY	MAT. INDEX	LODGING	HEIGHT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AGS828RR	0	2.5	34	1.3	13.9			
N8001	1	3.0	38	1.3	16.1	P	G	
N8002	4	2.8	35	1.3	15.3	P	G	T
AG7934	1	1.9	32	1.4	15.0			
G11-1614R2	-1	2.1	38	1.4	15.7	P	T	T
G12-2259R2	2	2.0	37	1.7	15.8	W	T	T
G12-6386	0	2.2	36	1.4	15.5	W	T	T
G12-6543	0	2.4	36	1.3	14.9	W	T	T
G13-2114R2	-2	2.1	35	1.5	17.2	P	T	T
G13-2369R2	-1	2.6	36	1.5	15.4	W	T	T
G13-3461R2	0	1.9	38	1.4	15.3	P	T	T
SC10-399RR	3	1.9	39	1.4	15.5	P	G	
N14-8537	3	3.1	36	1.4	11.3	P	T	
Mean	1	2.3	36	1.4	15.1			
LSD(0.05)	3	0.5	3	0.3	0.9			
CV(%)	385	27.0	9	22.0	7.2			

TABLE 124 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST VIII 2017

STRAIN/	*SCN Cyst Score (1-5 Scale)†*			*PRK*	*SRK*	*SC*	*SC*
VARIETY	*Race 1*	*Race 3*	*Race 5*	*GA*	*GA*	*RATING*	*SCORE*
AGS828RR	.	4	5	2.0	1.0	R	1.0
N8001	.	3	4	3.5	1.5	MS	4.0
N8002	.	5	5	4.3	3.5	SS	3.0
AG7934	.	.	.	1.9	.	R	1.0
G11-1614R2	.	1	4	3.0	1.0	S	5.0
G12-2259R2	.	4	4	2.0	1.0	MS	4.0
G12-6386	.	1	4	2.3	1.0	SS	3.0
G12-6543	.	1	4	1.5	1.0	SS	3.0
G13-2114R2	.	4	5	1.0	1.0	R	1.0
G13-2369R2	.	3	5	2.4	1.0	SS	3.0
G13-3461R2	.	3	1	3.5	1.0	MS	4.0
SC10-399RR	.	4	3	2.5	4.3	S	5.0
N14-8537	.	4	4	2.0	1.0	R	1.0

†The race 3 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines) HG Type 5.7 and HG Type 2.5.7, respectively. The race 1 test was not sucessful due to hail damage to the greenhouse.

TABLE 125 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC †	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	70.4	41.6	57.3	49.6	50.4	26.3	48.3	47.7
N8001	65.3	33.9	65.2	51.2	49.3	40.3	44.8	47.5
N8002	69.3	39.6	58.8	50.0	53.9	42.2	51.9	51.1
AG7934	60.8	38.9	55.4	41.1	50.4	22.4	32.5	41.0
G11-1614R2	65.5	33.2	61.3	51.9	46.8	49.7	48.2	49.2
G12-2259R2	43.8	34.8	56.7	31.9	47.8	41.6	48.6	41.4
G12-6386	42.1	35.9	55.3	43.6	52.3	29.3	50.0	42.2
G12-6543	43.0	38.7	53.4	54.2	47.3	38.0	48.0	44.9
G13-2114R2	57.2	38.5	47.7	58.7	49.1	50.1	50.9	50.8
G13-2369R2	47.2	40.0	58.3	40.0	48.5	49.0	50.7	45.9
G13-3461R2	64.5	36.6	52.5	48.5	49.4	45.1	46.4	48.4
SC10-399RR	55.0	40.1	52.6	47.3	50.1	36.2	42.0	45.1
N14-8537	58.6	40.9	60.9	43.1	54.2	38.2	41.5	46.1
Mean	57.1	37.9	56.6	47.0	50.0	39.1	46.4	46.3
LSD(0.05)	10.1	8.0	17.8	6.4	5.9	6.2	6.9	7.4
CV(%)	10.5	12.2	18.7	8.1	7.1	9.5	8.8	15.9

† Data not included in the mean: Clemson, SC

TABLE 126 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Tifton, GA	Test Mean
AGS828RR	10/28	10/29	11/1	10/30	10/31	10/11	10/27
N8001	1	2	1	1	2	0	1
N8002	3	5	4	0	4	8	4
AG7934	0	0	2	1	3	2	1
G11-1614R2	-3	1	1	-2	-1	-3	-1
G12-2259R2	-4	2	3	5	4	4	2
G12-6386	-10	3	3	2	2	1	0
G12-6543	-9	1	3	1	2	2	0
G13-2114R2	-9	-1	0	1	-5	1	-2
G13-2369R2	-9	0	2	1	3	-4	-1
G13-3461R2	-1	0	1	-1	-2	1	0
SC10-399RR	0	2	5	2	5	1	3
N14-8537	5	3	0	2	7	3	3
Mean	-3	1	2	1	2	1	1
LSD(0.05)	1	2	3	4	2	.	3
CV(%)	22	75	102	235	63	0	385

TABLE 127 - PLANT HEIGHT (INCHES)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	42	31	40	32	41	18	31	34
N8001	37	37	42	33	50	30	39	38
N8002	39	32	40	31	43	26	35	35
AG7934	39	30	38	33	40	18	25	32
G11-1614R2	44	34	41	33	49	28	38	38
G12-2259R2	43	38	40	34	46	25	35	37
G12-6386	39	31	40	31	49	25	35	36
G12-6543	41	35	37	31	51	26	37	36
G13-2114R2	41	34	39	33	40	25	32	35
G13-2369R2	41	33	40	30	48	28	34	36
G13-3461R2	44	32	38	35	49	29	37	38
SC10-399RR	45	34	40	33	51	30	41	39
N14-8537	38	34	38	33	50	29	36	36
Mean	41	34	39	33	47	26	35	36
LSD(0.05)	4	.	4	7	.	.	3	3
CV(%)	6	.	5	12	.	.	5	9

TABLE 128 - PLANT LODGING (1-5)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	3.3	2.0	4.0	2.0	1.8	1.0	3.3	2.5
N8001	3.0	2.3	4.0	2.3	2.8	1.0	5.0	3.0
N8002	3.0	2.0	3.3	2.0	2.0	2.0	5.0	2.8
AG7934	1.7	1.8	2.7	2.0	1.8	2.0	1.7	1.9
G11-1614R2	2.0	1.2	3.3	1.3	2.3	1.0	3.3	2.1
G12-2259R2	1.7	1.5	3.7	1.3	2.0	1.0	2.7	2.0
G12-6386	2.0	2.0	3.7	1.0	2.3	1.0	3.7	2.2
G12-6543	2.7	2.0	2.7	2.3	2.3	1.0	4.0	2.4
G13-2114R2	2.3	1.8	3.3	1.3	2.5	1.0	2.3	2.1
G13-2369R2	2.7	2.0	4.0	2.3	2.5	1.0	3.7	2.6
G13-3461R2	2.0	1.0	2.7	1.7	1.5	2.0	3.0	1.9
SC10-399RR	2.0	1.0	2.7	1.3	1.5	1.0	3.7	1.9
N14-8537	3.3	3.0	4.0	1.7	2.5	2.0	5.0	3.1
Mean	2.4	1.8	3.4	1.7	2.1	1.3	3.6	2.3
LSD(0.05)	0.8	0.4	0.7	1.1	0.5	.	1.0	0.5
CV(%)	20.5	10.8	12.1	39.0	11.4	.	15.9	26.7

TABLE 129 - SEED QUALITY (1-5)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	1.0	2.0	.	1.0	1.5	1.0	1.5	1.3
N8001	1.0	1.5	.	1.3	1.5	1.0	1.5	1.3
N8002	1.0	1.5	.	1.0	1.5	1.0	1.7	1.3
AG7934	1.0	1.5	.	1.0	2.5	1.0	1.8	1.4
G11-1614R2	1.0	2.0	.	1.0	2.0	1.0	2.0	1.4
G12-2259R2	1.0	2.0	.	2.0	1.5	1.0	2.3	1.7
G12-6386	1.0	2.0	.	1.7	1.5	1.0	1.5	1.4
G12-6543	1.0	1.5	.	1.0	1.5	1.0	1.5	1.3
G13-2114R2	1.3	2.0	.	1.3	1.5	1.3	1.7	1.5
G13-2369R2	1.0	1.5	.	1.7	1.5	1.0	1.8	1.5
G13-3461R2	1.0	2.0	.	1.3	1.5	1.0	1.7	1.4
SC10-399RR	1.0	2.0	.	1.3	1.5	1.0	1.5	1.4
N14-8537	1.0	1.5	.	1.7	1.5	1.0	1.5	1.4
Mean	1.0	1.8	.	1.3	1.6	1.0	1.7	1.4
LSD(0.05)	0.3	.	.	0.8	.	0.3	0.3	0.3
CV(%)	15.6	.	.	38.0	.	15.6	11.6	22.1

TABLE 130 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	14.9	12.8	.	16.8	16.6	12.5	10.3	13.9
N8001	16.4	13.8	.	19.2	20.4	15.9	11.6	16.1
N8002	16.5	13.3	.	17.0	17.3	15.5	11.5	15.3
AG7934	16.3	13.1	.	18.2	17.8	12.4	12.1	15.0
G11-1614R2	16.2	13.4	.	18.5	20.5	15.1	11.5	15.7
G12-2259R2	15.9	12.9	.	18.0	19.7	15.5	12.7	15.8
G12-6386	15.6	13.3	.	18.9	19.8	14.2	11.7	15.5
G12-6543	14.6	12.4	.	18.2	18.1	13.9	11.9	14.9
G13-2114R2	17.7	14.9	.	20.2	19.5	17.4	12.9	17.2
G13-2369R2	14.5	14.4	.	18.2	18.9	16.1	11.1	15.4
G13-3461R2	16.1	13.3	.	17.7	17.9	14.3	12.2	15.3
SC10-399RR	16.2	12.8	.	18.8	18.3	15.8	10.5	15.5
N14-8537	11.7	9.0	.	14.7	12.3	10.5	8.4	11.3
Mean	15.6	13.0	.	18.0	18.2	14.6	11.4	15.1
LSD(0.05)	1.2	.	.	2.8	.	1.1	0.8	0.9
CV(%)	4.5	.	.	9.1	.	4.6	4.1	7.2

TABLE 131 - OIL (%)†
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	19.0	18.6	.	18.7	19.5	19.4	.	19.0
N8001	17.4	16.6	.	17.9	17.7	18.7	.	17.7
N8002	17.6	18.0	.	18.4	19.0	19.2	.	18.4
AG7934	19.8	19.3	.	19.4	20.4	21.0	.	20.0
G11-1614R2	19.8	18.4	.	20.1	20.4	20.7	.	19.9
G12-2259R2	17.6	16.6	.	18.1	18.8	19.1	.	18.1
G12-6386	18.7	17.9	.	19.5	19.1	20.2	.	19.1
G12-6543	18.6	19.1	.	20.0	19.0	20.3	.	19.4
G13-2114R2	17.5	17.9	.	18.2	18.8	19.8	.	18.5
G13-2369R2	19.0	19.2	.	18.4		19.6	.	19.1
G13-3461R2	18.3	19.4	.	18.4	19.3	19.7	.	19.0
SC10-399RR	18.9	18.2	.	17.7	19.5	19.3	.	18.7
N14-8537	18.4	17.1	.	17.8	18.2	18.4	.	18.0
Mean	18.5	18.2	.	18.7	19.1	19.6	.	18.8
LSD(0.05)	.	.	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	.	.	2.5

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

TABLE 132 - PROTEIN (%)†
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Clemson, SC	Florence, SC	Kinston, NC	Plains, GA	Tifton, GA	Test Mean
AGS828RR	35.6	36.5	.	37.0	35.3	35.9	.	36.1
N8001	37.0	38.9	.	37.4	37.8	34.8	.	37.2
N8002	36.5	36.5	.	36.7	35.3	35.7	.	36.1
AG7934	35.1	35.9	.	37.0	34.9	33.9	.	35.4
G11-1614R2	35.8	37.5	.	37.0	34.4	34.7	.	35.9
G12-2259R2	39.0	40.4	.	39.4	36.8	37.7	.	38.7
G12-6386	37.2	38.9	.	38.3	36.8	35.9	.	37.4
G12-6543	37.4	36.0	.	36.1	36.8	35.4	.	36.3
G13-2114R2	36.8	37.5	.	38.2	33.1	35.6	.	36.2
G13-2369R2	36.1	35.4	.	39.1		35.8	.	36.4
G13-3461R2	35.1	34.3	.	37.2	34.7	32.5	.	34.8
SC10-399RR	35.0	36.8	.	37.7	34.5	35.9	.	36.0
N14-8537	36.7	37.7	.	38.3	37.2	37.3	.	37.4
Mean	36.4	37.1	.	37.6	35.6	35.5	.	36.4
LSD(0.05)	.	.	.	.	.	.	.	1.2
CV(%)	.	.	.	.	.	.	.	2.6

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

TABLE 133 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP VIII 2017

Ent	Strain/Variety	Parentage	Source	Fn	Trans-genic†	Special Traits‡
1	AGS828RR	Commercial check	Commercial		RR1	
2	N8001	N7001 x Cook	Carter		Conv	Diversity
3	N8002	N7001 x Cook	Carter		Conv	
4	AG7934	Commercial check	Commercial		RR1	
5	G14-2888R2	R03-1232 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	High Protein or Oil
6	G14-3268R2	N05-7432 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	
7	G14-4098R2	N05-7462 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
8	G14-4191R2	N05-7462 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
9	G14-4316R2	N05-7462 x [G00-3880(3) x RR2Y]	Li	F6d	RR2	
10	G14-4396R2	N06-7564 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	High Protein or Oil
11	G14-4515R2	N06-7564 x [G00-3213(3) x RR2Y]	Li	F6d	RR2	High Protein or Oil
12	G15PRLL-953	NCC06-899 x [G00-3213(2) x A5547-127 Liberty]	Li	F6d	LL	
13	SC10-07	SC98-1850 x Manokin	Fallen		Conv	
14	SC10-57	SC98-1850 x Manokin	Fallen		Conv	LJ Trait
15	SC10-261RR	SC98-1850 x SC01-783RR	Fallen		RR1	

†Conv= Conventional(non-transgenic), LL= Liberty Link®, RR1= Roundup Ready®, and RR2=Roundup Ready 2 Yield®
‡AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LLN= low linolenic acid, LP= low phytate, HO= high olelic acid, HOLL= high oleic acid/low linolenic acid,
SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 134 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST VIII 2017

STRAIN/ VARIETY	SEED YIELD	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)† Race 1	Race 3	Race 5	SC RATING	SC SCORE
AGS828RR	42.1	12	10	0	2.6	36	.	5	4	R	1
N8001	48.0	8	9	-1	2.9	40	.	5	3	S	5
N8002	48.3	7	8	1	3.0	37	.	5	3	SS	3
AG7934	42.7	11	10	0	1.8	35	.	.	.	R	1
G14-2888R2	46.6	9	8	-3	3.1	39	.	4	4	SS	3
G14-3268R2	52.5	1	3	-2	2.2	37	.	5	5	MS	4
G14-4098R2	50.2	5	6	-2	2.0	40	.	4	4	MS	4
G14-4191R2	44.8	10	9	-4	2.3	38	.	4	5	MS	4
G14-4316R2	51.3	3	4	1	2.3	40	.	4	4	MS	4
G14-4396R2	52.2	2	5	-6	2.7	37	.	4	4	S	5
G14-4515R2	51.2	4	5	-4	2.4	41	.	4	4	S	5
G15PRLL-953	48.7	6	5	1	2.4	40	.	1	4	MS	4
SC10-07	38.8	14	13	-2	2.7	38	.	2	2	R	1
SC10-57	41.1	13	11	-3	2.2	42	.	2	4	R	1
SC10-261RR	33.2	15	15	4	2.5	40	.	2	4	SS	3
Mean	46.1	.	.	-1	2.5	39	.	.	.		.
LSD(0.05)	7.7	.	.	5	.	4	.	.	.		.
CV(%)	14.7	.	.	354	.	9	.	.	.		.

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

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

TABLE 134 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST VIII 2017

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	% PROTEIN‡	% OIL‡	FL COLOR	PUB. COLOR	POD COLOR
AGS828RR	1.4	14.7	37.1	18.5			
N8001	1.3	17.3	36.8	17.9	P	G	
N8002	1.3	15.6	35.9	18.6	P	G	T
AG7934	1.6	15.7	35.8	19.7			
G14-2888R2	1.5	16.7	36.7	18.4	W	T	T
G14-3268R2	1.3	16.9	36.0	18.7	W	T	T
G14-4098R2	1.4	17.2	34.3	19.2	P	T	T
G14-4191R2	1.6	16.0	35.5	18.8	P	T	T
G14-4316R2	1.6	18.7	34.8	18.9	W	T	T
G14-4396R2	1.3	16.7	38.0	17.1	W	T	T
G14-4515R2	1.3	16.9	37.8	18.0	W	T	T
G15PRLL-953	1.3	16.7	34.7	19.8	W	G	T
SC10-07	2.1	16.4	37.9	17.8	W	T	
SC10-57	2.1	16.6	35.9	18.6	W	T	
SC10-261RR	1.8	14.5	35.7	18.8	W	T	
Mean	1.5	16.4	36.2	18.6			
LSD(0.05)	0.4	1.2	1.1	0.5			
CV(%)	22.7	6.7	2.4	2.2			

TABLE 135 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	*Athens, GA(A)*	*Clayton, NC*	*Florence, SC*	*Kinston, NC*	*Plains, GA*	*Test Mean*
AGS828RR	54.1	41.1	35.2	49.3	30.8	42.1
N8001	58.4	38.5	51.6	48.9	42.7	48.0
N8002	51.4	40.6	54.9	50.6	44.2	48.3
AG7934	55.9	39.3	38.5	49.4	30.4	42.7
G14-2888R2	52.5	37.4	44.9	51.5	46.8	46.6
G14-3268R2	62.3	42.9	54.6	55.8	47.1	52.5
G14-4098R2	61.9	40.2	43.8	50.0	55.0	50.2
G14-4191R2	57.3	41.6	33.4	47.4	44.2	44.8
G14-4316R2	58.3	41.6	38.2	60.0	58.5	51.3
G14-4396R2	73.7	40.6	45.7	54.5	46.7	52.2
G14-4515R2	63.7	40.9	51.6	53.8	45.8	51.2
G15PRLL-953	58.9	43.6	37.7	54.2	49.0	48.7
SC10-07	53.5	36.5	19.6	46.2	38.0	38.8
SC10-57	63.9	35.5	22.3	45.3	38.6	41.1
SC10-261RR	33.1	31.6	32.0	43.2	26.2	33.2
Mean	57.3	39.5	40.3	50.7	42.9	46.1
LSD(0.05)	7.3	5.5	6.2	5.9	6.1	7.7
CV(%)	7.6	8.3	9.2	7.0	8.5	14.7

TABLE 136 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VIII 2017

STRAIN/ VARIETY	*Athens, GA(A)*	*Clayton, NC*	*Florence, SC*	*Kinston, NC*	*Plains, GA*	*Test Mean*
AGS828RR	10/27	10/29	11/11	10/30	.	11/1
N8001	1	2	-9	3	.	-1
N8002	3	5	-7	5	.	1
AG7934	2	0	-7	4	.	0
G14-2888R2	0	-3	-10	2	.	-3
G14-3268R2	-4	-2	-8	5	.	-2
G14-4098R2	-3	-3	1	-2	.	-2
G14-4191R2	-8	-6	-1	-2	.	-4
G14-4316R2	0	-2	2	3	.	1
G14-4396R2	-8	-3	-10	-2	.	-6
G14-4515R2	-5	0	-10	0	.	-4
G15PRLL-953	0	2	3	-1	.	1
SC10-07	-7	-5	1	2	.	-2
SC10-57	-7	-8	3	-1	.	-3
SC10-261RR	1	7	1	7	.	4
Mean	-2	-1	-3	2	.	-1
LSD(0.05)	1	4	11	3	.	5
CV(%)	24	155	192	93	.	354

TABLE 137 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Test Mean
AGS828RR	37	35	39	45	25	36
N8001	39	35	45	49	31	40
N8002	37	36	42	37	32	37
AG7934	38	33	32	46	24	35
G14-2888R2	34	37	43	52	33	39
G14-3268R2	38	36	41	42	27	37
G14-4098R2	41	38	42	41	35	40
G14-4191R2	40	36	42	41	31	38
G14-4316R2	40	38	42	45	33	40
G14-4396R2	41	32	38	41	29	37
G14-4515R2	39	37	41	57	33	41
G15PRLL-953	40	37	40	53	30	40
SC10-07	40	34	38	49	32	38
SC10-57	40	39	46	49	40	42
SC10-261RR	44	34	43	43	34	40
Mean	39	36	41	46	31	39
LSD(0.05)	5	4	5	.	.	4
CV(%)	7	5	7	.	.	9

TABLE 138 - PLANT LODGING (1-5)
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Test Mean
AGS828RR	4	2	4	2	1	3
N8001	3	2	5	3	2	3
N8002	3	2	5	3	2	3
AG7934	2	2	2	2	2	2
G14-2888R2	3	3	4	2	3	3
G14-3268R2	2	2	4	2	1	2
G14-4098R2	2	2	3	3	1	2
G14-4191R2	2	2	3	3	2	2
G14-4316R2	2	2	3	3	1	2
G14-4396R2	2	3	4	3	2	3
G14-4515R2	2	3	3	3	2	2
G15PRLL-953	3	2	3	2	2	2
SC10-07	3	2	4	3	3	3
SC10-57	2	3	3	2	2	2
SC10-261RR	3	2	4	2	2	3
Mean	3	2	3	2	2	3
LSD(0.05)	1	0	1	0	.	1
CV(%)	18	9	25	8	.	27

TABLE 139 - SEED QUALITY (1-5)
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Test Mean
AGS828RR	1.0	2.0	1.3	1.5	1.0	1.4
N8001	1.0	2.0	1.0	1.5	1.0	1.3
N8002	1.0	2.0	1.0	1.5	1.0	1.3
AG7934	1.0	3.0	1.0	2.0	1.0	1.6
G14-2888R2	1.0	2.5	1.0	2.0	1.0	1.5
G14-3268R2	1.0	2.0	1.0	1.5	1.0	1.3
G14-4098R2	1.0	2.0	1.3	1.5	1.0	1.4
G14-4191R2	1.0	2.5	2.0	1.5	1.0	1.6
G14-4316R2	1.0	2.5	2.0	1.5	1.0	1.6
G14-4396R2	1.0	2.0	1.0	1.5	1.0	1.3
G14-4515R2	1.0	2.0	1.0	1.5	1.0	1.3
G15PRLL-953	1.0	1.5	1.3	1.5	1.0	1.3
SC10-07	1.7	3.5	2.0	2.5	1.0	2.1
SC10-57	1.0	3.5	2.7	2.5	1.0	2.1
SC10-261RR	1.0	2.5	2.0	2.5	1.0	1.8
Mean	1.0	2.4	1.4	1.8	1.0	1.5
LSD(0.05)	0.2	.	0.5	.		0.4
CV(%)	14.3	.	20.6	.	0.0	22.7

TABLE 140 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	*Athens, GA(A)*	*Clayton, NC*	*Florence, SC*	*Kinston, NC*	*Plains, GA*	*Test Mean*
AGS828RR	13.2	14.6	17.1	15.9	13.2	14.7
N8001	16.1	14.4	21.5	18.5	15.7	17.3
N8002	14.3	13.0	18.0	16.7	15.7	15.6
AG7934	14.5	12.1	19.4	18.6	13.8	15.7
G14-2888R2	16.6	13.9	19.7	18.1	15.2	16.7
G14-3268R2	15.9	14.8	19.7	18.6	15.8	16.9
G14-4098R2	14.9	13.8	21.7	17.4	17.4	17.2
G14-4191R2	13.7	13.5	20.1	16.3	15.9	16.0
G14-4316R2	16.4	14.2	24.6	19.3	18.2	18.7
G14-4396R2	15.4	14.3	20.1	18.8	14.9	16.7
G14-4515R2	16.2	13.5	20.3	18.5	15.5	16.9
G15PRLL-953	15.9	14.8	19.2	17.8	15.6	16.7
SC10-07	15.2	14.8	20.5	18.2	13.6	16.4
SC10-57	15.8	15.0	18.9	18.7	15.1	16.6
SC10-261RR	12.4	13.0	18.3	16.4	12.8	14.5
Mean	15.1	14.0	19.9	17.9	15.2	16.4
LSD(0.05)	0.9	.	1.7	.	1.2	1.2
CV(%)	3.7	.	5.0	.	4.7	6.7

TABLE 141 - OIL (%)†
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Test Mean
AGS828RR	18.6	18.7	17.5	18.8	18.9	18.5
N8001	17.2	17.5	17.6	18.7	18.5	17.9
N8002	18.0	18.3	18.9	19.0	18.7	18.6
AG7934	19.0	19.6	19.4	20.2	20.5	19.7
G14-2888R2	18.5	17.6	18.4	18.5	18.9	18.4
G14-3268R2	18.0	18.6	18.9	18.6	19.1	18.7
G14-4098R2	18.8	19.0	18.5	20.0	19.5	19.2
G14-4191R2	18.5	19.1	18.2	19.0	19.2	18.8
G14-4316R2	18.9	18.5	18.5	18.9	19.7	18.9
G14-4396R2	16.6	17.1	16.6	17.4	17.7	17.1
G14-4515R2	18.1	17.9	17.3	18.2	18.7	18.0
G15PRLL-953	19.6	19.6	19.0	20.6	20.0	19.8
SC10-07	17.9	18.2	16.6	18.1	18.1	17.8
SC10-57	18.8	18.9	17.6	18.9	18.9	18.6
SC10-261RR	18.8	18.9	17.9	20.0	18.4	18.8
Mean	18.4	18.5	18.0	19.0	19.0	18.6
LSD(0.05)	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	2.2

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

TABLE 142 - PROTEIN (%)†
PRELIMINARY GROUP VIII 2017

STRAIN/ VARIETY	Athens, GA(A)	Clayton, NC	Florence, SC	Kinston, NC	Plains, GA	Test Mean
AGS828RR	36.5	35.7	39.2	37.0	36.9	37.1
N8001	38.0	36.3	38.6	33.8	37.2	36.8
N8002	36.5	35.3	36.5	34.8	36.2	35.9
AG7934	36.6	35.0	38.0	35.1	34.5	35.8
G14-2888R2	36.8	37.4	35.6	37.0	36.8	36.7
G14-3268R2	36.7	34.8	36.9	35.8	35.7	36.0
G14-4098R2	34.6	33.3	35.4	34.1	34.1	34.3
G14-4191R2	35.6	34.7	37.5	34.9	34.7	35.5
G14-4316R2	34.8	35.1	35.9	34.8	33.5	34.8
G14-4396R2	38.3	36.9	40.3	36.8	37.6	38.0
G14-4515R2	37.7	36.5	39.8	37.5	37.5	37.8
G15PRLL-953	34.9	33.9	36.4	32.7	35.4	34.7
SC10-07	37.2	37.3	40.5	36.7	37.9	37.9
SC10-57	35.1	35.2	38.9	34.6	35.8	35.9
SC10-261RR	35.4	35.0	37.9	33.4	36.9	35.7
Mean	36.3	35.5	37.8	35.3	36.0	36.2
LSD(0.05)	.	.	.	.	.	1.1
CV(%)	.	.	.	.	.	2.4

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

The End - See you next year!