

UNIFORM SOYBEAN TESTS

SOUTHERN STATES

2025

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

Uniform Soybean Test Parentage Information Database is available at:

<https://www.soybase.org/tools/parentage/>

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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 lines under a wide variety of conditions; and permits new lines 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 lines 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 lines 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:

SA19-10016, SA19-10772, AG35XF1, AG38XF3, AG43XF2, LD015-3818, S13-3851C, S16-7922, AG45XF3, AG48XF2, AG49XF4, S16-14869, AG53XF2, AG54XF0, TN21-4659, TN11-5140, AG56XF2, AG66XF2, G16-8779, NC-Dilday (release of NCC06-1090), P68A07SX, SH 7418LL, AG72XF0, P70A62E, G21-245R2X and N8002.

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 LINES

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 lines.

Qualifications for Participation in the Uniform Soybean Tests

Participants must be willing and able to conduct unified tests with conventional lines and lines 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 in connection with the Uniform Test program.

Non-transgenic entries in the Uniform Soybean Test may be used by Uniform Soybean Test participants as parents in biparental crosses or for developing recurrent selection populations, subject to the material transfer requirements of the institution who owns the entry. 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 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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LINE DESIGNATION

The lines designated by number carry a letter prefix. This letter identifies where each line 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	-	Illinois Agricultural Experiment Station and USDA-ARS
N	-	North Carolina Agricultural Experiment Station and USDA-ARS
NDPJE	-	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
TC	-	North Carolina Agricultural Experiment Station and USDA-ARS
TN	-	Tennessee 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://www.soybase.org/tools/parentage/>

SOYBEAN NURSERY INFORMATION

A. LOCATION CONTACT AND TESTS- 2025

Location	Contact	PIII-S-L*	PIV-S-E	PIV-S-L	PV-E	PV-L	PVI	PVII-VIII	UIV-S-E	UIV-S-L	UV	UVI	UVII-VIII
Belle Mina,AL	Jenny Koebernick									U	U		
Fairhope,AL	Jenny Koebernick							P					U
Tallassee,AL	Jenny Koebernick												
Marianna,AR	Caio Viera		P	P	P				U	U	U		
Stuttgart,AR	Caio Viera	P	P	P	P				U	U	U		
Athens,GA(A)	Zenglu Li						P	P				U	U
Athens,GA(B)	Zenglu Li												U
Plains,GA	Zenglu Li						P	P				U	U
Manhattan, KS	W. T. Schapaugh, Jr.		P	P	P				U	U	U		
McCune,KS	W. T. Schapaugh, Jr.												
Ottawa,KS	W. T. Schapaugh, Jr.		P						U				
Pittsburg,KS	W. T. Schapaugh, Jr.			P	P					U	U		
Bossier City,LA	Ronald E Strahan						P			U	U	U	
Columbia,MO	Andrew Scaboo	P	P						U				
Fisk,MO	Feng Lin	P	P	P					U	U	U		
Starkville,MS	Brad Burgess			P	P	P			U	U	U		
Stoneville,MS	Anne Gillen		P	P	P	P			U	U	U		
Jackson Springs,NC	Ben Fallen							P					U
Kinston,NC	Ben Fallen				P	P	P	P				U	U
Plymouth,NC	Rouf Mian						P	P			U	U	U
Jackson,TN	Vacant		P	P	P	P			U	U	U		
Knoxville,TN	Vincent Pantalone	P	P	P	P	P			U	U	U		
Springfield,TN	Vincent Pantalone								U	U	U		
Orange,VA	Jennifer Sheetz		P	P						U	U		
Warsaw,VA	Joseph Oakes/ Bo Zhang	P			P	P				U	U		
Total Locations Planned		5	10	10	10	6	5	6	11	14	15	5	7
Total Locations Reporting Data		4	8	9	9	5	5	6	7	12	13	5	7

*P = Preliminary Test; U = Uniform Test.

B. PLANTING DATES – 2025

Location*	PIII-S-L	PIV-S-E	PIV-S-L	PV-E	PV-L	PVI	PVII-VIII	UIV-S-E	UIV-S-L	UV	UVI	UVII-VIII
Belle Mina,AL									23-May	23-May		
Fairhope,AL							5-Jun					5-Jun
Tallassee,AL												
Marianna,AR**, ***		NH	1-May	1-May				NH	NH	1-May		
Stuttgart,AR	18-Apr	18-Apr	18-Apr	18-Apr				18-Apr	18-Apr	18-Apr		
Athens,GA(A)						3-Jun	3-Jun				3-Jun	3-Jun
Athens,GA(B)												24-Jun
Plains,GA						19-May	19-May				19-May	19-May
Manhattan, KS		14-May	14-May	14-May				14-May	14-May	14-May		
McCune,KS												
Ottawa,KS		17-Jun						17-Jun				
Pittsburg,KS			23-Jun	23-Jun					23-Jun	23-Jun		
Bossier City,LA						NR			NR	NR	NR	
Columbia, MO***	NH	NH						NH				
Fisk, MO	2-Jun	2-Jun	NR					2-Jun	2-Jun	2-Jun		
Starkville,MS***			NH	NH	NH			NH	NH	NH		
Stoneville,MS		16-Apr	16-Apr	16-Apr	16-Apr			17-Apr	17-Apr	17-Apr		
Jackson Springs, NC							21-May					21-May
Kinston,NC				10-Jun	10-Jun	10-Jun	10-Jun				10-Jun	10-Jun
Plymouth,NC						30-May	30-May			30-May	30-May	30-May
Jackson,TN***		NR	NR	NR	NR			NH	NR	NR		
Knoxville,TN	23-May	23-May	2-Jun	5-Jun	5-Jun			23-May	2-Jun	5-Jun		
Springfield,TN***								14-May	14-May	14-May		
Orange,VA***		20-May	20-May						20-May	NH		
Warsaw,VA	30-Apr			30-Apr	30-Apr				30-Apr	30-Apr		

*NR = Date not reported, trial data reported. NH = Not Harvested or Data not reported due to various problems.

** Locations with significant damage due to Dicamba herbicide.

*** Location damage- Marianna - chemical damage, Columbia - excessive rain, Starkville - water deficit, Jackson - water deficit, Springfield - water deficit, Orange - deer damage.

C. HARVEST DATES – 2025

Location*	PIII-S-L	PIV-S-E	PIV-S-L	PV-E	PV-L	PVI	PVII-VIII	UIV-S-E	UIV-S-L	UV	UVI	UVII-VIII
Belle Mina,AL									16-Oct	24-Oct		
Fairhope,AL							12-Nov					12-Nov
Tallassee,AL												
Marianna.AR**, ***		NH	22-Oct	22-Oct				NH	MH	22-Oct		
Stuttgart,AR	2-Oct	3-Oct	14-Oct	24-Oct				3-Oct	14-Oct	24-Oct		
Athens,GA(A)						6-Nov	6-Nov				6-Nov	6-Nov
Athens,GA(B)												13-Nov
Plains,GA						23-Oct	23-Oct				23-Oct	23-Oct
Manhattan, KS		31-Oct	31-Oct	31-Oct				31-Oct	31-Oct	31-Oct		
McCune,KS												
Ottawa,KS		6-Nov						6-Nov				
Pittsburg,KS			11-Nov	11-Nov					11-Nov	11-Nov		
Bossier City,LA						NR			NR	NR	NH	
Columbia, MO***	NH	NH						NH				
Fisk, MO		20-Oct	13-Nov					13-Nov	13-Nov	13-Nov		
Starkville,MS***			NH	NH	NH			NH	NH	NH		
Stoneville,MS		NR	NR	NR	NR			NR	NR	NR		
Jackson Springs, NC							5-Nov					5-Nov
Kinston,NC				17-Nov	17-Nov	18-Nov	19-Nov				18-Nov	19-Nov
Plymouth,NC						17-Nov	18-Nov			17-Nov	17-Nov	18-Nov
Jackson,TN***		NR	NR	NR	NR			NH	NR	NR		
Knoxville,TN	17-Oct	21-Oct	23-Oct	6-Nov	6-Nov			23-Oct	5-Nov	6-Nov		
Springfield,TN***								16-Oct	16-Oct	16-Oct		
Orange,VA***		17-Oct	17-Oct						27-Oct	27-Oct		
Warsaw,VA	6-Oct			28-Oct	28-Oct				21-Oct	28-Oct		

*NR = Date not reported, trial data reported. NH = Not Harvested or Data not reported due to various problems.

** Locations with significant damage due to Dicamba herbicide.

*** Location damage- Marianna - chemical damage, Columbia - excessive rain, Starkville - water deficit, Jackson - water deficit, Springfield - water deficit, Orange - deer damage.

D. AGRONOMIC CHARACTERISTICS OF LOCATIONS – 2025

2025 Location	Soil type	Row Spacing	Planted Length	Harvested Length	Trial Bordered	End Trim-med	# Rows Planted	# Rows Harvested	Prior Crop	Irrigated
Belle Mina,AL	Decatur silt loan	30	20	20	Yes	No	4	2	Fallow	No
Fairhope,AL	Malbis fine sandy loan	36	20	18	Yes	Yes	4	2	Cotton	No
Tallassee,AL	Cahaba fine sandy loam	36	20	20	Yes	No	4	2	Corn	Yes
Marianna,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/Small Grains	Yes
Athens,GA(B)	Wickham sandy loam	30	16	16	Yes	No	4	2	Sorghum	Yes
Plains,GA	Tifton sandy loam	30	16	12	Yes	Yes	4	2	Soybean	Yes
Manhattan,KS	Bismarckgrove-Kimo complex silty clay loam, rarely flooded	30	12	12	Yes	No	4	2	Corn	No
McCune,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Corn	No
Ottawa,KS	Woodson silt loam	30	12	12	Yes	No	4	2	Corn	No
Pittsburg,KS	Parsons silt loam	30	12	12	Yes	No	4	2	Corn	No
Bossier City,LA	Latanier Clay	40	20	20	Yes	No	4	2	Corn	Yes
Columbia, MO	Mexico silt loam	30	12	12	Yes	No	4	2	Corn	No
Fisk, MO	Amagon and Calhoun silt loam	30	12	12	Yes	No	4	2	Corn	Yes
Starkville,MS	Brooksville silty clay	19	18	16	Yes	Yes	3	3	Wheat	No
Stoneville,MS	Sharkey clay	26	16	15.5	Yes	Yes	5	3	Soybean	Yes
Jackson Springs, NC	Ailey loamy sand	38	11	8	Yes	Yes	4	2	Corn	Yes
Kinston,NC	Stallings loamy sand	30	11	8	Yes	Yes	4	2	Corn	No
Plymouth,NC	Portsmouth silt loam	38	11	9	Yes	Yes	4	2	Corn	No
Jackson, TN	Lexington silt loam/Collins silt loam	30	12	12	Yes	No	4	2	Soybeans	Yes
Knoxville, TN	Sequatchie silt loam	30	20	16	Yes	Yes	4	2	Corn	No
Springfield, TN	Staser silt loam	30	25	20	Yes	Yes	4	2	N/A	Yes
Orange, VA	Meadowville Silt	15	16	12.5	Yes	Yes	3	3	Canola	No
Warsaw, VA	Kempsville loam	22	20	10	Yes	Yes	5	3	Wheat	No

E. WEATHER STATION INFORMATION – as of 2013

Location	Weather Station URL
Belle Mina, AL	national weather service
Fairhope, AL	national weather service
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
Novelty, MO	http://agebb.missouri.edu/weather/stations/knox/index.htm
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/
Jackson Springs, NC	http://www.nc-climate.ncsu.edu/cronos/index.php?station=JACK&temporal=daily
Kinston, NC	http://www.nc-climate.ncsu.edu/cronos/index.php?station=314689&temporal=D
Plymouth, NC(A)	http://www.nc-climate.ncsu.edu/cronos/?station=PLYM
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Bixby, OK	www.mesonet.ou.edu
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Florence, SC	not reported
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Cooper, TX	not reported
Orange, VA	not reported
Petersburg, VA	climo.asp?partner=30371&traveler=0&zipChg=1&zipcode=23841&metric=0
Suffolk, VA	not reported
Warsaw, VA	http://www.ext.vt.edu/cgi-bin/WebObjects/Mesonet.woa/wa/lookupCoordinate?472,102

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 (3) replications were planted for PVI, PVII-VIII.

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 (MAT) 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. The reference variety in each test is the first entry in each test.

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 lines 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 lines 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 (PRO) 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 Dr. Steve Cermak, 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 (Pertin 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%.

Amino Acids. Seed amino acid percentages were determined for lines 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. There were no seed analyzed for amino acid this year.

Fatty Acids. Fatty acid analysis of lines 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 seed sample containing 15-20 healthy seed and no off-type seed for each line in a trial was sent to Dr. Feng Lin, University of Missouri, Delta Center, Portageville, MO for analysis.

Destiny Hunt 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 lines 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 µg/mL for sucrose, raffinose and stachyose, Standard Level 2: 150, 15, and 37.5 µg/mL for sucrose, raffinose and stachyose, Standard Level 3: 500, 50 and 125 µg/mL for sucrose, raffinose and stachyose and Standard Level 4: 1000, 100, and 250 µg/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 lines of UIV-S-Early to UVII-VIII for reaction to southern root-knot nematode (*Meloidogyne incognita* (Kofoed and White) Chitwood) (SRK), peanut root-knot nematode (*Meloidogyne arenaria* (Neal) Chitwood) (PRK), and *Meloidogyne javanica* (Treub) Chitwood (JRK) were conducted in a greenhouse at the University of Georgia by Dr. Melissa G. Mitchum.

Four 3-day-old seedlings of each genotype were individually transplanted in a Ray Leach Cone-tainer (20.6 cm long) filled with heat-sterilized sandy loam soil to within 5 cm of the top. Eight 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 were placed on a greenhouse bench under supplemental light provided by 400-watt high pressure sodium lamps. Seven days after planting, each Cone-tainer was inoculated with 2500 root-knot nematode eggs collected using the 0.5% NaOCL (10% Clorox) method. A hole at a depth of 2-3 cm was poked on each side of the seedling. One ml of inoculum (1250 eggs/mL) was placed in each hole with a digital dispensing pump. Plants were overhead watered manually for 14 days following inoculation before being placed on a greenhouse bench in an automatic pan irrigation system. All plants were fertilized weekly with 20-20-20 (N = 20%, P = 8.7%, K = 16.6%) fertilizer solution.

Six weeks after inoculation, shoots were excised and root systems removed from the Cone-tainers and washed free of soil. For screening genotypes in the Uniform Tests, the total number of galls per root system was counted. The galls on each root system were converted to a gall index (GI) relative to the average number of galls on the

susceptible check (GaSoy17) using a scale of 1-5 where 1 = <10% GI; 2=11-20%, 3=21-30%, 4=31-40%, 5 = >40% GI. The average GI across the four replications of each genotype is reported.

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 by Dr. Alemayehu Habteweld. Screening for SCN was done with HG Type 1.2.5.7 (race 2) and HG Type 2.5.7 (race 5). One seed of each soybean entry (UIV-S-Early to UVII-VIII and PIII-S to PVII-VIII) was planted in sterile soil mix with 5 replications per each SCN population. At the time of planting, approximately 2,500 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 (resistant, R) = 0-5 cysts on the root, 2 (moderately resistant, MR) = 6-10 cysts on the root, 3 (moderately susceptible, MS) = 11-20 cysts on the root, 4 (susceptible, S) = 21-40 cysts on the root, and 5 (highly susceptible, HS) = >40 cysts on the root. The 5 replications were averaged and if there were less than 4 plants to rate, the screening was repeated. The mean rating = (rating category x number of plants receiving rating)/total number of plants in that comparison. The tests were performed in two parts based on available greenhouse space.

5601T was used as the standard susceptible check along with Hutcheson as an additional susceptible check. The standard index lines were included in every test to confirm characterization.

For part 1 of the HG Type 1.2.5.7 screening, 5601T had an average of 163 cysts and Hutcheson had 145. The female index for the cultures were as follows: Pickett FI 50(%), PI 548402 FI 22(%), PI 88788 FI 41(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 88(%), PI 89772 FI 0(%), and PI 548316 FI 58(%). For part 2 of the HG Type 1.2.5.7 screening, 5601T had an average of 153 cysts and Hutcheson had 117. The female index for the cultures were as follows: Pickett FI 43(%), PI 548402 FI 19(%), PI 88788 FI 75(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 20(%), PI 89772 FI 1(%), and PI 548316 FI 50(%).

For part 1 of the HG Type 2.5.7 screening, 5601T had an average of 135 cysts and Hutcheson had 205. The female index for the cultures were as follows: Pickett FI 63(%), PI 548402 FI 5(%), PI 88788 FI 69(%), PI 90763 FI 1(%), PI 437654 FI 0(%), PI 209332 FI 84(%), PI 89772 FI 0(%), and PI 548316 FI 77(%). For part 2 of the HG Type 2.5.7 screening, 5601T had an average of 254 cysts and Hutcheson had 335. The female index for the cultures were as follows: Pickett FI 25(%), PI 548402 FI 4(%), PI 88788 FI 43(%), PI 90763 FI 0(%), PI 437654 FI 0(%), PI 209332 FI 78(%), PI 89772 FI 0(%), and PI 548316 FI 73(%).

Stem Canker (SC). Soybean lines from all tests were evaluated by Dr. Anne M. Gillen, USDA-ARS, at the Delta Research and Extension Center, Stoneville, Mississippi for their reaction to *Diaporthe aspalathi* E. Jansen, Castl. & Crous (Syn D. *phaseolorum* var *meridionalis*) (SC), the fungus that causes southern stem canker. Lines were planted in non-replicated single-row plots 2.7 m long. Inoculum was produced by aseptically culturing isolates. Autoclaved, flat toothpicks containing a single isolate from Mississippi known as LiDA18-2 [isolated in 2006 (not 2018 as reported in prior annual reports) from Stoneville, MS, and also known as MS-SSC91] were provided by Dr. Shuxian Li, USDA-ARS. Eight 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 and leaf symptoms were observed and noted approximately 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. Beginning in 2025 each inoculated plant was scored as given below and a weighted average score was calculated. Prior to 2025, the rating system required observable leaf symptoms to rate a plant as susceptible and gave less importance to plants that died from the inoculation site upwards than to plants that were completely dead. It is common for susceptible check plants to not completely die when inoculated at later stages of development. The new system considers death of the top of the plant to be equal to complete plant death. Our experience since approximately 2017 showed that many plants clearly had stem canker lesions and/or died of stem canker but leaf symptoms were not observed. Therefore, leaf symptoms are not part of the rating scale but are recorded and used as additional information. However, in 2025, almost all the susceptible plots developed leaf symptoms.

Stem canker lesion rating scale:

1. No lesion present. Normal wound healing.
2. Lesion extends less than 0.3 cm from inoculation site.
3. Lesion longer than 0.3 cm and equal to or less than 2 cm.
4. Lesion longer than 2 cm but top of plant is not dead.
5. Plant dead or top dead from inoculation site upwards with evidence of lesions.

A weighted mean rating was calculated for each plot which was rounded to the nearest whole number. A rating of 1 = resistant, 2 = moderately resistant, 3 = somewhat susceptible, 4 = moderately susceptible or 5 = susceptible was applied to each line. The rating scale was derived based on experience and evaluation of the checks plots Susceptible checks were AG4403 (MGIV), GoSoy 54G16 (MGV), TN20-5012 (MGV), USDA-N6005 (MG6), N8002 (MG8). Resistant checks were S16-7922 (MGIV) and NC-Dilday (MGVI).

Sudden Death Syndrome (SDS). SDS, which is caused by the fungus *Fusarium virguliforme*. SDS screening was discontinued 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 software) with variety as the fixed effect and replication as random effect. Coefficient of variation (CV), LSD ($\alpha = 0.05$) and LSD ($\alpha = 0.10$) were calculated from the Proc Mixed output for yield. LSmeans are presented when multiple replications of data were available. Any location that does not have at least two replications of yield data is not included in the yield analysis. In the cases when only 1 replication of data was provided for variables other than yield, the actual values for that replication were presented.

Yield, maturity, height, lodging and quality for each test were analyzed over all locations for the uniform tests and the preliminary tests by analysis of variance using a mixed model (Proc Mixed in SAS software) with variety as a fixed effect and location, replication nested within location, and the interaction of location and variety as random effects. Coefficient of variation (CV), LSD ($\alpha = 0.05$) and LSD ($\alpha = 0.10$) (for yield only) were calculated from the Proc Mixed output. **Yield data from locations with a yield CV of over 15 were omitted from yield test means and yield 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, except in 2019 and 2020 when certain trials in the Uniform Tests had replicated data. 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.

When a 2-year mean is missing from the general summary table for a Uniform Test, the strain/variety was not in the test for the prior year. In this case the 3-year mean is the average of two years.

TABLE 1 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP III-S-LATE 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	SA19-10016	Commercial check	check		Conv	
2	SA19-10772	Commercial check	check		Conv	
3	AG35XF1	Commercial check	check		XF	
4	AG38XF3	Commercial check	check		XF	
5	R22KB-02940	S13-2743C x R17C-186	Vieira		Conv	
6	R22KB-02989	S13-2743C x R17C-186	Vieira		Conv	
7	R22KB-12472	PI556913 x KS4117NS	Vieira		Conv	
8	R22KB-16067	R16-1807 x Illini3648N	Vieira		Conv	
9	S22-1701	S09-13608/LD15-6762	Feng Lin		Conv	
10	S22-9948	S15-17812/LD17-12352	Feng Lin		Conv	
11	S22PR-260E3	S16-7922/S16-7922E3	Feng Lin		E3	
12	SA21-3544	SA13-2699 x LD15-5776793	Scaboo	F5	Conv	rhg1-b, BSR, Rdc3
13	SA21-5909	SA17-16316 x LD15-5776793	Scaboo	F5	Conv	rhg1-b, BSR, Rcs3, Rdc3
14	SA21-8789	S13-2743C x LD15-5776793	Scaboo	F5	Conv	rhg1-b, Rps1a, BSR, Rdc3
15	SA22-4836	SA13-1385 x LD15-6762	Scaboo	F5	Conv	rhg1-b, Rps1c, BSR, Rdc3
16	SA22-5514	SA17-20063 x SA18-13443	Scaboo	F5	Conv	Rps1c
17	V18-3788	V12-0956 x V11-2187	Zhang		Conv	
18	V20-1478R2DI	S12-11476 x PI 547616 (LL74-852)	Zhang		RR2	
19	V21-2064R2	S12-11476 x Md00-6015	Zhang		RR2	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®,
RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid,
SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

**TABLE 2 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST III-S-LATE 2025**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
	YIELD†	RANK					Race 2	Race 3	Race 5		
SA19-10016	69.4	9	7	0	1.7	30	2.5	.	4.2	R	1
SA19-10772	70.3	7	6	4	1.8	31	2.4	.	4.0	R	1
AG35XF1	61.1	14	14	1	2.0	32	2.3	.	4.4	R	1
AG38XF3	70.9	5	8	6	1.8	32	4.5	.	3.0	R	1
R22KB-02940	71.6	4	6	6	2.5	33	2.8	.	4.6	R	1
R22KB-02989	70.1	8	8	7	2.4	37	2.4	.	4.4	R	1
R22KB-12472	70.5	6	8	10	1.5	32	2.0	.	3.6	R	1
R22KB-16067	66.8	11	10	7	1.9	35	2.4	.	2.4	R	1
S22-1701	72.4	3	5	7	1.6	32	3.0	.	3.6	R	1
S22-9948	62.8	12	12	5	1.7	33	1.8	.	1.2	R	1
S22PR-260E3	55.3	18	17	2	2.9	34	1.8	.	4.4	R	1
SA21-3544	55.8	17	16	3	1.2	27	2.8	.	3.8	R	1
SA21-5909	58.7	15	15	1	1.6	33	3.3	.	4.8	R	1
SA21-8789	49.6	19	19	3	1.3	32	2.0	.	3.6	R	1
SA22-4836	56.7	16	15	5	1.8	31	1.8	.	4.8	R	1
SA22-5514	62.7	13	10	-1	1.5	32	2.6	.	4.5	MS	4
V18-3788	67.2	10	10	13	2.8	35	2.4	.	4.4	R	1
V20-1478R2DI	73.4	1	4	9	2.0	36	3.2	.	4.8	R	1
V21-2064R2	72.8	2	4	9	1.5	34	3.2	.	4.4	R	1
Mean	65.2	.	.	5	1.9	33	.	.	.	.	.
LSD(0.05)	15.1	.	.	5	0.9	4	.	.	.	.	.
LSD(0.10)	12.5	.	.	.	.	.	.	.	.	.	.
CV(%)	13.1	.	.	72	38.8	12	.	.	.	.	.

†Data not included in the mean due to CV >15%: Fisk and Knoxville.

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

TABLE 3 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST III-S-LATE 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
SA19-10016	2.5	13.0	31.0	23.1	43.8	P	Lt	T
SA19-10772	2.8	13.0	33.5	21.2	46.1	P	Lt	T
AG35XF1	3.0	14.1	35.1	20.6	48.1	P	G	Br
AG38XF3	3.1	14.9	35.8	19.3	48.2	P	G	Br
R22KB-02940	2.6	12.6	34.6	19.1	46.4	W	G	B
R22KB-02989	2.4	12.1	33.3	19.4	44.8	W	G	B
R22KB-12472	2.3	14.2	34.5	20.3	47	W	LT	T
R22KB-16067	2.0	12.1	34.3	20.2	46.7	P	LT	T
S22-1701	1.9	12.7	33.0	20.3	45	W+P	G	T
S22-9948	2.1	12.8	36.2	20.9	49.7	W	T	Br
S22PR-260E3	2.3	11.5	35.7	20.2	48.6	W	Lt	T
SA21-3544	2.4	13.6	32.6	21.5	45.1	P	G	T
SA21-5909	2.3	12.5	33.1	21.6	45.8	P	G	T
SA21-8789	3.3	15.2	34.6	20.8	47.4	P+W	G	B
SA22-4836	2.8	13.2	33.9	20.9	46.6	W	G	T
SA22-5514	2.5	13.0	33.2	21.3	45.8	P	Lt	B
V18-3788	2.3	12.2	33.9	20.1	46.1	W	Lt	T
V20-1478R2DI	2.3	13.4	34.8	19.3	46.8	P	Lt	T
V21-2064R2	2.3	14.1	36.2	19.0	48.5	P	Lt	B
Mean	2.5	13.2	34.2	20.5	46.7			
LSD(0.05)	0.9	1.3	1.5	1.2	1.7			
LSD(0.10)	.	.	.	.	.			
CV(%)	23.5	6.8	2.6	3.6	2.1			

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

TABLE 4 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP III-S-LATE 2025 †

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	63.9	20.9	49.7	89.0	69.4
SA19-10772	71.1	30.3	50.2	90.4	70.3
AG35XF1	65.9	19.2	44.8	77.4	61.1
AG38XF3	67.1	32.0	57.1	84.7	70.9
R22KB-02940	64.2	35.2	57.6	85.6	71.6
R22KB-02989	59.8	49.1	55.1	85.1	70.1
R22KB-12472	39.4	35.4	60.5	80.6	70.5
R22KB-16067	65.6	37.1	50.0	83.6	66.8
S22-1701	65.3	38.8	57.4	87.3	72.4
S22-9948	61.1	42.5	43.0	82.7	62.8
S22PR-260E3	63.6	36.5	33.8	76.7	55.3
SA21-3544	66.7	23.4	34.3	77.2	55.8
SA21-5909	56.6	38.3	38.2	79.1	58.7
SA21-8789	59.0	26.0	24.7	74.4	49.6
SA22-4836	58.6	36.2	31.7	81.7	56.7
SA22-5514	52.2	27.4	31.5	94.0	62.7
V18-3788	62.5	48.8	52.5	82.0	67.2
V20-1478R2DI	60.2	54.5	57.8	88.9	73.4
V21-2064R2	75.8	48.3	59.1	86.5	72.8
Mean	62.0	35.8	46.8	83.5	65.2
LSD(0.05)	22.5	14.2	11.1	15.5	15.1
LSD(0.10)	18.6	11.7	9.2	12.8	12.5
CV(%)	17.3	18.4	11.4	8.8	13.1

† Data not included in the test mean due to CV > 15%: Fisk and Knoxville.

**TABLE 5 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP III-S-LATE 2025**

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	9/24	9/19	8/16	.	9/9
SA19-10772	3	5	5	.	4
AG35XF1	-1	2	2	.	1
AG38XF3	6	4	7	.	6
R22KB-02940	-2	8	13	.	6
R22KB-02989	3	9	11	.	7
R22KB-12472	5	8	18	.	10
R22KB-16067	10	4	7	.	7
S22-1701	5	11	7	.	7
S22-9948	3	5	8	.	5
S22PR-260E3	0	2	5	.	2
SA21-3544	0	2	7	.	3
SA21-5909	-2	1	4	.	1
SA21-8789	4	5	-1	.	3
SA22-4836	5	4	5	.	5
SA22-5514	-2	1	-1	.	-1
V18-3788	6	12	20	.	13
V20-1478R2DI	4	11	14	.	9
V21-2064R2	5	10	11	.	9
Mean	3	5	7	.	5
LSD(0.05)	8	5	3	.	5
CV(%)	140	48	21	.	72

TABLE 6 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	33	20	25	43	30
SA19-10772	39	22	22	42	31
AG35XF1	36	20	27	45	32
AG38XF3	38	22	21	48	32
R22KB-02940	37	24	22	49	33
R22KB-02989	36	31	26	55	37
R22KB-12472	37	22	24	47	32
R22KB-16067	42	25	25	49	35
S22-1701	35	22	28	44	32
S22-9948	34	27	25	48	33
S22PR-260E3	36	27	21	53	34
SA21-3544	30	17	22	40	27
SA21-5909	34	26	25	46	33
SA21-8789	31	28	24	44	32
SA22-4836	32	25	24	43	31
SA22-5514	36	23	24	48	32
V18-3788	40	31	21	49	35
V20-1478R2DI	38	32	28	46	36
V21-2064R2	36	31	25	45	34
Mean	36	25	24	46	33
LSD(0.05)	11	7	8	3	4
CV(%)	15	14	16	3	12

TABLE 7 - PLANT LODGING (1-5)
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	3.0	1.8	1.0	1.0	1.7
SA19-10772	3.0	2.0	1.0	1.1	1.8
AG35XF1	3.0	2.0	1.0	1.9	2.0
AG38XF3	2.5	2.8	1.0	1.0	1.8
R22KB-02940	2.0	2.8	1.0	4.1	2.5
R22KB-02989	2.0	3.0	1.0	3.5	2.4
R22KB-12472	1.5	2.3	1.0	1.2	1.5
R22KB-16067	2.5	2.5	1.0	1.7	1.9
S22-1701	2.0	2.1	1.0	1.2	1.6
S22-9948	2.0	2.5	1.0	1.5	1.7
S22PR-260E3	3.5	3.0	1.0	4.0	2.9
SA21-3544	1.0	1.8	1.0	1.0	1.2
SA21-5909	2.5	2.0	1.0	1.0	1.6
SA21-8789	1.5	1.8	1.0	1.0	1.3
SA22-4836	3.0	2.0	1.0	1.1	1.8
SA22-5514	2.0	2.0	1.0	1.0	1.5
V18-3788	2.5	3.3	1.0	4.4	2.8
V20-1478R2DI	2.0	2.1	1.0	2.8	2.0
V21-2064R2	1.5	2.4	1.0	1.2	1.5
Mean	2.3	2.3	1.0	1.9	1.9
LSD(0.05)	1.7	0.7	.	0.7	0.9
CV(%)	35.1	13.9	.	17.9	38.8

TABLE 8 - SEED QUALITY (1-5)
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	2.0	2.5	3.0	.	2.5
SA19-10772	2.0	2.5	4.0	.	2.8
AG35XF1	2.0	3.0	4.0	.	3.0
AG38XF3	2.5	2.3	4.5	.	3.1
R22KB-02940	2.0	2.3	3.5	.	2.6
R22KB-02989	2.5	1.8	3.0	.	2.4
R22KB-12472	2.0	1.5	3.5	.	2.3
R22KB-16067	2.0	1.5	2.5	.	2.0
S22-1701	2.0	1.3	2.5	.	1.9
S22-9948	2.5	1.3	2.5	.	2.1
S22PR-260E3	2.0	2.0	3.0	.	2.3
SA21-3544	2.0	3.0	2.5	.	2.4
SA21-5909	2.0	2.3	2.5	.	2.3
SA21-8789	2.0	3.5	4.5	.	3.3
SA22-4836	2.5	2.8	3.0	.	2.8
SA22-5514	2.0	2.0	3.5	.	2.5
V18-3788	3.0	1.3	2.5	.	2.3
V20-1478R2DI	2.0	1.5	3.5	.	2.3
V21-2064R2	2.5	1.5	3.0	.	2.3
Mean	2.2	2.1	3.2	.	2.5
LSD(0.05)	0.7	0.8	0.7	.	0.9
CV(%)	14.6	17.5	10.9	.	23.5

TABLE 9 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	14.0	13.7	11.2	.	13.0
SA19-10772	13.1	14.2	11.9	.	13.0
AG35XF1	15.8	13.8	12.7	.	14.1
AG38XF3	16.9	14.2	13.7	.	14.9
R22KB-02940	13.3	12.1	12.4	.	12.6
R22KB-02989	12.1	12.5	11.7	.	12.1
R22KB-12472	14.8	13.8	14.1	.	14.2
R22KB-16067	13.8	11.9	10.6	.	12.1
S22-1701	12.9	12.2	13.0	.	12.7
S22-9948	13.9	12.7	12.0	.	12.8
S22PR-260E3	12.7	11.4	10.4	.	11.5
SA21-3544	14.4	14.8	11.9	.	13.6
SA21-5909	13.9	13.0	10.7	.	12.5
SA21-8789	15.7	16.4	13.5	.	15.2
SA22-4836	15.2	12.4	12.0	.	13.2
SA22-5514	14.6	12.8	11.5	.	13.0
V18-3788	12.3	12.0	12.3	.	12.2
V20-1478R2DI	14.6	12.7	13.0	.	13.4
V21-2064R2	15.5	14.6	12.4	.	14.1
Mean	14.2	13.2	12.2	.	13.2
LSD(0.05)	1.0	1.3	1.0	.	1.3
CV(%)	3.5	4.6	4.1	.	6.8

TABLE 10 - OIL (%)†
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	20.4	24.9	24.1	.	23.1
SA19-10772	19.7	21.6	22.2	.	21.2
AG35XF1	19.3	20.1	22.5	.	20.6
AG38XF3	17.8	19.2	21.0	.	19.3
R22KB-02940	17.4	19.3	20.5	.	19.1
R22KB-02989	17.6	19.5	21.0	.	19.4
R22KB-12472	18.8	21.0	21.1	.	20.3
R22KB-16067	18.7	20.7	21.1	.	20.2
S22-1701	18.7	20.8	21.3	.	20.3
S22-9948	19.1	20.9	22.6	.	20.9
S22PR-260E3	.	20.3	21.7	.	20.2
SA21-3544	20.2	21.6	22.7	.	21.5
SA21-5909	20.0	21.2	23.6	.	21.6
SA21-8789	18.6	19.5	24.4	.	20.8
SA22-4836	18.8	21.3	22.6	.	20.9
SA22-5514	19.4	21.4	23.1	.	21.3
V18-3788	18.9	20.5	21.0	.	20.1
V20-1478R2DI	18.6	19.5	19.8	.	19.3
V21-2064R2	17.9	19.4	19.6	.	19.0
Mean	18.9	20.7	21.9	.	20.5
LSD(0.05)	.	.	.	.	1.2
CV(%)	.	.	.	.	3.6

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

TABLE 11 - PROTEIN (%)†
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	34.7	27.8	30.5	.	31.0
SA19-10772	34.5	33.5	32.4	.	33.5
AG35XF1	36.7	35.7	33.0	.	35.1
AG38XF3	37.6	35.9	33.9	.	35.8
R22KB-02940	37.5	33.9	32.3	.	34.6
R22KB-02989	35.7	32.9	31.2	.	33.3
R22KB-12472	37.0	33.3	33.2	.	34.5
R22KB-16067	36.5	33.3	33.1	.	34.3
S22-1701	35.1	32.2	31.7	.	33.0
S22-9948	38.8	35.8	34.1	.	36.2
S22PR-260E3	.	35.3	33.9	.	35.7
SA21-3544	34.2	32.8	30.7	.	32.6
SA21-5909	35.0	33.6	30.6	.	33.1
SA21-8789	36.4	35.5	31.8	.	34.6
SA22-4836	36.1	32.8	32.8	.	33.9
SA22-5514	36.1	31.9	31.5	.	33.2
V18-3788	36.0	33.2	32.4	.	33.9
V20-1478R2DI	36.6	33.4	34.3	.	34.8
V21-2064R2	38.4	35.9	34.3	.	36.2
Mean	36.3	33.6	32.5	.	34.2
LSD(0.05)	.	.	.	.	1.5
CV(%)	.	.	.	.	2.6

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

TABLE 12 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP III-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Stuttgart, AR	Warsaw, VA	Test Mean
SA19-10016	47.4	40.2	43.7	.	43.8
SA19-10772	46.7	46.4	45.3	.	46.1
AG35XF1	49.4	48.6	46.3	.	48.1
AG38XF3	49.7	48.3	46.6	.	48.2
R22KB-02940	49.3	45.7	44.2	.	46.4
R22KB-02989	47.1	44.4	42.9	.	44.8
R22KB-12472	49.5	45.8	45.7	.	47.0
R22KB-16067	48.8	45.6	45.6	.	46.7
S22-1701	46.9	44.2	43.8	.	45.0
S22-9948	52.1	49.2	47.9	.	49.7
S22PR-260E3	.	48.1	47.1	.	48.6
SA21-3544	46.6	45.5	43.2	.	45.1
SA21-5909	47.6	46.3	43.5	.	45.8
SA21-8789	48.6	47.9	45.7	.	47.4
SA22-4836	48.3	45.3	46.1	.	46.6
SA22-5514	48.7	44.1	44.5	.	45.8
V18-3788	48.2	45.4	44.6	.	46.1
V20-1478R2DI	48.9	45.1	46.5	.	46.8
V21-2064R2	50.8	48.4	46.4	.	48.5
Mean	48.6	46.0	45.2	.	46.7
LSD(0.05)	.	.	.	.	1.7
CV(%)	.	.	.	.	2.1

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 13 - PARENTAGE OF ENTRIES
UNIFORM GROUP IV-S-EARLY 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	AG43XF2	Commercial check	check		XF	
2	AG38XF3	Commercial check	check		XF	
3	LD15-3818	Commercial check	check		Conv	
4	S13-3851C	Commercial check	check		Conv	
5	K19-2402	S12-2418 / K11-2363B	Schapaugh		Conv	
6	K20-1313	46X714 / KS4117Ns	Schapaugh		Conv	
7	K21-2518	KS4117Ns / K15-1310	Schapaugh		Conv	
8	R19C-1081	S09-13635 x R11-328	Vieira		Conv	Flood tolerant
9	R20C-1516	R16-259 x KS4117Ns	Vieira		Conv	
10	R21C-02295	S13-2743C x UA46i20C	Vieira		Conv	
11	R23PR-00043E	R15-2422*4 x CTV-DNR-1006	Vieira		E3	
12	R23PR-00100E	R18-14502*4 x CTV-DNR-1007	Vieira		E3	
13	S20-25571	S13-2743/S13-1033	Feng Lin		Conv	
14	S21-11102	K16-2185/S13-3851	Feng Lin		Conv	
15	S21-20276	S09-13608/PI 534646	Feng Lin		Conv	
16	S21-22067	S16-14161/TX12-1041	Feng Lin		Conv	
17	S22PR-383E3	S16-14730/S16-14730E3	Feng Lin		E3	
18	V18-2720R2	V12-0253R2 x S09-12096	Zhang		RR2	

† Conv= Conventional(non-transgenic), DIC - Dicamba resistance Xtend®, E3= Enlist E3®, LL=Liberty Link®,
RR1=Roundup Ready®, RR2=Roundup Ready 2 Yield®,

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,
LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid,
SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,
and STS= sulfonylurea tolerant

TABLE 14 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST IV-S-EARLY 2025

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD†			PROTEIN‡			OIL‡		
			2025	24-24	23-25	2025	24-25	23-25	2025	24-25	23-25
AG43XF2	2	7	64.7	62.8	63.1	34.3	34.2	34.3	20.2	21.4	21.1
AG38XF3	15	11	58.2	.	.	36.1	.	.	18.9	.	.
LD15-3818	18	15	55.9	56.9	55.3	34.4	34.9	34.8	20.8	22.3	21.7
S13-3851C	6	9	63.2	62.1	60.6	35.3	35.6	35.7	19.6	20.9	20.5
K19-2402	7	8	63.0	62.5	.	36.0	35.8	.	18.5	20.2	.
K20-1313	4	7	64.2	62.8	.	35.4	35.3	.	18.6	20.4	.
K21-2518	9	8	62.7	.	.	35.6	.	.	18.9	.	.
R19C-1081	16	15	58.1	55.2	.	35.5	35.7	.	18.5	19.9	.
R20C-1516	14	9	61.4	58.3	.	35.6	36.0	.	19.1	20.5	.
R21C-02295	13	9	61.6	.	.	35.5	.	.	18.8	.	.
R23PR-00043E	10	8	62.4	.	.	35.5	.	.	17.9	.	.
R23PR-00100E	17	14	57.8	.	.	36.5	.	.	17.4	.	.
S20-25571	8	10	62.7	.	.	35.2	.	.	20.2	.	.
S21-11102	11	9	62.1	.	.	35.8	.	.	19.5	.	.
S21-20276	12	11	61.6	.	.	36.5	.	.	18.3	.	.
S21-22067	5	8	63.8	.	.	35.3	.	.	19.2	.	.
S22PR-383E3	3	7	64.5	.	.	35.1	.	.	18.1	.	.
V18-2720R2	1	6	65.0	61.2	.	34.0	34.2	.	20.0	20.9	.
Mean	.	.	61.8	.	.	35.4	.	.	19.0	.	.
LSD(0.05)	.	.	7.7	.	.	1.1	.	.	0.7	.	.
LSD(0.10)	.	.	6.4	.	.	.	.	.	.	.	.
CV(%)	.	.	11.7	.	.	2.5	.	.	3.0	.	.

† Data not included in yield mean: 2023 Knoxville; 2024 Jackson and Knoxville; 2025 Springfield and Knoxville.

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

TABLE 15 - GENERAL SUMMARY OF PERFORMANCE -Part 2
UNIFORM TEST IV-S-EARLY 2025

STRAIN/ VARIETY	MEAL† PRO %	MAT INDEX	LOD	HT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AG43XF2	46.7	0	1.5	31	2.4	14.6	W	Lt	Tn
AG38XF3	48.4	-6	1.5	29	2.7	16.4	P	G	Br
LD15-3818	47.3	-8	1.6	29	2.8	14.9	P		
S13-3851C	47.7	0	1.8	31	2.5	17.0	P	Lt	Tn
K19-2402	48.0	1	1.4	32	2.1	17.6	P		
K20-1313	47.2	2	1.5	30	2.1	16.2	P		
K21-2518	47.7	2	1.7	31	2.3	16.2			
R19C-1081	47.4	2	1.8	37	1.9	16.8	W	G	B
R20C-1516	47.8	-2	1.5	29	2.0	16.4	P	G	T
R21C-02295	47.6	0	1.7	33	1.9	14.1	P	T	T
R23PR-00043E	46.9	2	1.5	28	2.5	15.2	P	G	T
R23PR-00100E	48.1	1	2.2	36	2.5	14.7	P	G	T
S20-25571	48.0	-1	2.0	34	2.1	15.0	P	Lt	
S21-11102	48.4	2	1.4	33	2.4	16.7	P	T	
S21-20276	48.5	2	1.4	27	2.3	14.5	P	G	
S21-22067	47.4	1	1.5	35	3.0	15.6	P	G	
S22PR-383E3	46.7	3	1.5	29	2.6	14.3		G	T
V18-2720R2	46.2	0	2.0	38	1.9	14.8			
Mean	47.5	0	1.6	32	2.3	15.6			
LSD(0.05)	1.3	3	0.3	2	0.6	0.9			
CV(%)	2.1	2465	24.0	9	25.0	5.1			

† Estimated meal protein content was added to the annual report in 2018.

**TABLE 16 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST IV-S-EARLY 2025**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			RKN Gall Score (1-5 Scale)‡			SC RATING	SC SCORE
	Race 2	Race 3	Race 5	PRK	SRK	JRK		
AG43XF2	4.5	.	1.8	4.5	5.0	4.8	R	1
AG38XF3	4.8	.	1.0	4.0	5.0	4.5	R	1
LD15-3818	1.2	.	1.0	5.0	5.0	4.8	R	1
S13-3851C	4.8	.	1.2	4.5	5.0	2.0	R	1
K19-2402	3.4	.	1.5	4.8	5.0	5.0	R	1
K20-1313	4.0	.	1.0	5.0	5.0	5.0	R	1
K21-2518	3.4	.	1.0	5.0	5.0	5.0	MR	2
R19C-1081	4.0	.	1.4	5.0	3.8	5.0	R	1
R20C-1516	.	.	1.5	5.0	4.8	5.0	R	1
R21C-02295	4.5	.	1.2	4.3	5.0	3.3	R	1
R23PR-00043E	1.5	.	1.8	3.0	5.0	3.0	R	1
R23PR-00100E	3.0	.	2.0	3.5	4.0	4.5	R	1
S20-25571	3.6	.	1.2	5.0	5.0	5.0	S	5
S21-11102	3.2	.	2.0	5.0	3.8	5.0	R	1
S21-20276	4.4	.	1.6	5.0	4.3	4.5	MR	2
S21-22067	4.2	.	1.0	2.5	3.0	3.8	R	1
S22PR-383E3	3.8	.	1.3	4.8	5.0	5.0	R	1
V18-2720R2	5.0	.	1.6	5.0	1.0	4.8	R	1

†The race 2 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines)

Type 1.2.5.7 and HG Type 2.5.7, respectively. Results for race 3 were omitted.

‡The root-knot nematode (RKN) species used in these tests were Meloidogyne incognita (southern root knot = SRK), M. arenaria (peanut root knot = PRK), and M. javanica (Javanese root-knot = JRK) MR = mixed reaction.

TABLE 17 - SEED YIELD (BUSHEL PER ACRE)
UNIFORM TEST IV-S-EARLY 2025 †

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	66.4	38.0	74.4	62.7	12.7	56.5	63.5	64.7
AG38XF3	66.3	31.2	78.1	56.6	7.1	41.6	48.3	58.2
LD15-3818	61.2	46.3	64.2	52.9	11.6	53.6	47.6	55.9
S13-3851C	61.9	55.0	61.1	63.5	22.1	64.0	65.3	63.2
K19-2402	69.1	55.1	65.0	55.3	18.0	61.9	63.7	63.0
K20-1313	74.6	60.5	68.7	55.3	10.4	63.3	59.1	64.2
K21-2518	71.2	56.1	63.3	62.2	16.4	54.3	62.5	62.7
R19C-1081	68.8	46.4	53.1	53.6	17.5	53.3	61.9	58.1
R20C-1516	69.1	43.7	64.7	55.8	15.5	54.0	63.4	61.4
R21C-02295	72.4	43.3	58.5	59.5	12.0	55.2	62.4	61.6
R23PR-00043E	70.0	33.5	62.8	58.2	15.0	49.1	72.1	62.4
R23PR-00100E	62.5	47.1	57.6	53.7	17.1	47.8	67.2	57.8
S20-25571	67.1	39.0	60.7	54.4	18.7	64.8	66.6	62.7
S21-11102	73.1	54.4	61.4	54.5	18.0	54.8	66.5	62.1
S21-20276	56.4	34.5	59.2	53.0	10.3	67.1	72.4	61.6
S21-22067	62.9	56.9	64.7	54.9	15.2	67.8	68.8	63.8
S22PR-383E3	71.4	47.4	63.2	60.3	20.1	65.3	62.3	64.5
V18-2720R2	74.3	55.0	55.2	55.6	10.0	70.9	68.9	65.0
Mean	67.7	46.8	63.1	56.8	14.9	58.1	63.5	61.8
LSD(0.05)	8.1	16.2	6.0	3.8	7.0	10.1	9.9	7.7
LSD(0.10)	6.8	13.5	5.0	3.1	5.8	8.4	8.2	6.4
CV(%)	7.3	20.8	5.7	4.0	28.2	10.5	9.4	11.7

†Location data not included in Test Mean due to CV > 15%: Springfield and Knoxville.

**TABLE 18 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-EARLY 2025**

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	10/2	10/3	10/6	10/14	9/17	9/2	9/10	9/25
AG38XF3	0	-1	-4	-4	0	-13	-18	-6
LD15-3818	-2	1	-4	-8	0	-20	-19	-8
S13-3851C	0	0	0	0	0	-1	1	0
K19-2402	3	0	1	0	0	2	2	1
K20-1313	3	1	4	1	-1	5	-1	2
K21-2518	2	0	2	3	0	5	2	2
R19C-1081	4	2	2	3	1	3	0	2
R20C-1516	0	0	-1	-1	0	-1	-9	-2
R21C-02295	3	0	2	1	0	1	-4	0
R23PR-00043E	3	1	1	0	1	5	4	2
R23PR-00100E	2	1	0	0	0	2	1	1
S20-25571	1	1	2	-2	0	-4	-6	-1
S21-11102	4	1	0	1	0	6	4	2
S21-20276	1	2	2	0	-1	5	4	2
S21-22067	2	0	2	-1	0	3	4	1
S22PR-383E3	3	2	3	5	1	4	2	3
V18-2720R2	1	-1	1	2	0	-1	1	0
Mean	2	0	1	0	0	0	-2	0
LSD(0.05)	2	2	2	2	1	3	2	3
CV(%)	82	292	199	.	.	4285	.	2465

TABLE 19 - PLANT HEIGHT (INCHES)
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	43	30	40	37	18	22	25	31
AG38XF3	44	25	40	35	19	20	23	29
LD15-3818	41	27	40	35	19	21	24	30
S13-3851C	43	30	40	35	19	22	24	31
K19-2402	44	34	43	37	19	21	25	32
K20-1313	39	31	43	32	17	22	24	30
K21-2518	42	33	40	35	19	22	26	31
R19C-1081	51	39	48	45	22	24	27	37
R20C-1516	42	24	41	34	21	22	23	29
R21C-02295	46	32	45	38	18	23	27	33
R23PR-00043E	41	24	40	36	16	16	26	28
R23PR-00100E	48	41	48	41	24	22	30	36
S20-25571	44	34	44	38	21	26	29	34
S21-11102	47	30	45	38	21	22	25	33
S21-20276	38	23	37	32	18	20	23	27
S21-22067	50	38	46	39	20	25	26	35
S22PR-383E3	43	27	40	34	16	21	25	29
V18-2720R2	50	42	48	42	19	32	34	38
Mean	44	31	43	37	19	22	26	32
LSD(0.05)	3	6	3	3	3	4	3	2
CV(%)	4	12	5	5	8	9	6	9

TABLE 20 - PLANT LODGING (1-5)
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	3.0	2.7	1.0	1.0	1.0	1.0	1.0	1.5
AG38XF3	3.3	2.2	1.0	1.0	1.0	1.0	1.0	1.5
LD15-3818	3.7	2.2	1.3	1.3	1.0	1.0	1.0	1.6
S13-3851C	3.7	2.8	1.0	1.3	1.0	1.5	1.0	1.8
K19-2402	2.7	2.0	1.3	1.0	1.0	1.0	1.0	1.4
K20-1313	3.3	2.0	1.3	1.0	1.0	1.0	1.0	1.5
K21-2518	3.7	2.3	2.0	1.0	1.0	1.0	1.0	1.7
R19C-1081	3.7	2.8	1.3	1.7	1.0	1.0	1.0	1.8
R20C-1516	3.0	2.0	1.3	1.0	1.0	1.0	1.0	1.5
R21C-02295	3.3	2.3	1.3	2.0	1.0	1.0	1.0	1.7
R23PR-00043E	3.3	2.0	1.0	1.0	1.0	1.0	1.0	1.5
R23PR-00100E	4.7	3.8	1.7	2.3	1.0	1.0	1.0	2.2
S20-25571	4.3	3.0	2.3	1.0	1.0	1.0	1.0	2.0
S21-11102	2.7	2.0	1.0	1.0	1.0	1.0	1.0	1.4
S21-20276	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.4
S21-22067	3.0	2.5	1.3	1.0	1.0	1.0	1.0	1.5
S22PR-383E3	3.0	2.3	1.0	1.0	1.0	1.0	1.0	1.5
V18-2720R2	3.7	3.0	1.7	2.0	1.0	1.0	1.7	2.0
Mean	3.4	2.4	1.3	1.3	1.0	1.0	1.0	1.6
LSD(0.05)	0.8	0.6	0.7	0.5	.	0.4	0.2	0.3
CV(%)	14.2	15.6	31.2	21.6	.	16.2	13.1	24.0

TABLE 21 - SEED QUALITY (1-5)
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	2.0	2.2	2.0	2.0	.	.	3.7	2.4
AG38XF3	2.3	2.0	3.0	2.0	.	.	4.0	2.7
LD15-3818	2.7	1.7	2.0	3.0	.	.	4.3	2.8
S13-3851C	2.0	1.7	3.0	2.0	.	.	3.7	2.5
K19-2402	2.3	2.0	2.0	2.0	.	.	2.3	2.1
K20-1313	2.0	1.7	2.0	2.0	.	.	2.7	2.1
K21-2518	2.0	1.8	3.0	2.0	.	.	2.7	2.3
R19C-1081	2.0	2.0	1.0	2.0	.	.	2.3	1.9
R20C-1516	2.0	1.7	2.0	2.0	.	.	2.2	2.0
R21C-02295	2.3	1.7	2.0	1.0	.	.	2.3	1.9
R23PR-00043E	3.0	2.7	2.0	2.0	.	.	2.7	2.5
R23PR-00100E	2.0	2.7	3.0	2.0	.	.	3.0	2.5
S20-25571	2.0	1.8	3.0	1.0	.	.	2.7	2.1
S21-11102	3.0	2.3	2.0	2.0	.	.	2.5	2.4
S21-20276	3.0	1.8	2.0	2.0	.	.	2.3	2.3
S21-22067	4.0	2.0	3.0	2.0	.	.	3.7	3.0
S22PR-383E3	2.0	2.7	3.0	3.0	.	.	2.7	2.6
V18-2720R2	2.0	1.5	2.0	1.0	.	.	2.7	1.9
Mean	2.4	2.0	2.3	1.9	.	.	2.9	2.3
LSD(0.05)	0.5	0.7	.	.	.	.	0.9	0.6
CV(%)	11.5	22.0	.	.	.	.	17.4	24.8

TABLE 22 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	14.2	13.1	14.7	17.7	.	.	13.5	14.6
AG38XF3	16.7	14.7	17.1	19.7	.	.	14.1	16.4
LD15-3818	15.0	14.1	14.7	17.8	.	.	12.7	14.9
S13-3851C	16.3	14.4	17.8	20.6	.	.	16.2	17.0
K19-2402	17.2	16.8	17.5	22.2	.	.	14.8	17.6
K20-1313	16.0	15.5	16.1	19.3	.	.	14.2	16.2
K21-2518	16.7	15.0	15.6	19.5	.	.	14.0	16.2
R19C-1081	17.4	15.5	17.0	19.3	.	.	14.7	16.8
R20C-1516	16.1	14.8	18.0	19.2	.	.	14.1	16.4
R21C-02295	14.3	12.1	14.2	16.6	.	.	13.1	14.1
R23PR-00043E	15.3	14.3	15.3	17.8	.	.	13.3	15.2
R23PR-00100E	14.6	13.5	14.7	16.0	.	.	13.9	14.7
S20-25571	14.8	13.7	15.2	17.8	.	.	13.5	15.0
S21-11102	17.0	14.7	16.5	19.0	.	.	16.0	16.7
S21-20276	14.1	12.1	14.6	18.0	.	.	13.9	14.5
S21-22067	15.9	13.1	15.7	19.2	.	.	14.5	15.6
S22PR-383E3	14.1	12.7	14.0	17.0	.	.	13.3	14.3
V18-2720R2	14.8	12.6	15.1	17.2	.	.	14.4	14.8
Mean	15.6	14.0	15.8	18.6	.	.	14.1	15.6
LSD(0.05)	1.2	1.0	.	.	.	.	0.8	0.9
CV(%)	4.5	4.4	.	.	.	.	3.2	5.1

TABLE 23- OIL (%)†
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	19.3	.	19.8	20.6	.	20.9	20.6	20.2
AG38XF3	17.5	.	18.4	18.6	.	19.7	20.5	18.9
LD15-3818	19.6	.	19.3	20.4	.	21.7	23.1	20.8
S13-3851C	17.9	.	19.3	19.7	.	20.6	20.5	19.6
K19-2402	17.6	.	18.8	19.4	.	18.5	18.4	18.5
K20-1313	17.6	.	18.2	18.3	.	20.1	18.6	18.6
K21-2518	18.3	.	18.6	19.1	.	19.3	19.1	18.9
R19C-1081	16.8	.	17.8	19.1	.	19.6	19.3	18.5
R20C-1516	17.9	.	18.1	19.3	.	20.3	19.8	19.1
R21C-02295	17.3	.	18.3	19.2	.	20.3	19.1	18.8
R23PR-00043E	16.5	.	18.3	18.0	.	19.2	17.3	17.9
R23PR-00100E	16.9	.	16.9	17.9	.	18.3	17.0	17.4
S20-25571	19.0	.	19.2	20.4	.	20.7	21.7	20.2
S21-11102	18.5	.	19.1	19.7	.	20.6	19.5	19.5
S21-20276	17.4	.	17.7	19.3	.	19.3	17.8	18.3
S21-22067	18.2	.	18.3	18.7	.	20.5	20.2	19.2
S22PR-383E3	17.4	.	18.0	18.7	.	19.0	17.7	18.1
V18-2720R2	19.1	.	19.7	20.1	.	21.1	20.0	20.0
Mean	17.9	.	18.5	19.2	.	20.0	19.5	19.0
LSD(0.05)	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	3.0

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

TABLE 24 - PROTEIN (%)†
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	35.9	.	33.1	32.2	.	34.9	35.4	34.3
AG38XF3	38.6	.	35.2	34.2	.	35.7	36.7	36.1
LD15-3818	35.9	.	34.7	33.2	.	33.9	34.5	34.4
S13-3851C	38.5	.	34.2	34.4	.	34.2	35.2	35.3
K19-2402	38.2	.	32.1	34.8	.	37.4	37.3	36.0
K20-1313	36.9	.	34.3	34.8	.	35.5	35.5	35.4
K21-2518	37.5	.	34.4	34.0	.	36.4	35.9	35.6
R19C-1081	38.7	.	35.2	33.9	.	34.8	35.1	35.5
R20C-1516	36.6	.	35.5	34.8	.	35.5	35.7	35.6
R21C-02295	37.9	.	35.0	34.2	.	34.5	36.1	35.5
R23PR-00043E	37.4	.	33.7	34.6	.	34.6	37.1	35.5
R23PR-00100E	37.8	.	36.0	35.8	.	35.0	38.0	36.5
S20-25571	38.4	.	35.9	32.4	.	35.7	33.7	35.2
S21-11102	37.9	.	34.4	35.3	.	34.8	36.8	35.8
S21-20276	38.1	.	36.4	35.0	.	36.1	36.9	36.5
S21-22067	36.9	.	34.8	35.2	.	34.6	34.9	35.3
S22PR-383E3	36.8	.	34.1	34.4	.	34.9	35.5	35.1
V18-2720R2	35.8	.	32.5	33.8	.	33.3	34.5	34.0
Mean	37.4	.	34.5	34.3	.	35.1	35.8	35.4
LSD(0.05)	.	.	.	.	.	.	.	1.1
CV(%)	.	.	.	.	.	.	.	2.5

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

TABLE 25 - ESTIMATED MEAL PROTEIN (%)†
UNIFORM GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Knoxville, TN	Manhattan, KS	Ottawa, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	48.4	.	44.8	44.1	.	48.0	48.5	46.7
AG38XF3	50.9	.	46.9	45.6	.	48.3	50.2	48.4
LD15-3818	48.5	.	46.7	45.3	.	47.0	48.8	47.3
S13-3851C	51.0	.	46.1	46.5	.	46.7	48.1	47.7
K19-2402	50.4	.	43.0	46.9	.	49.9	49.7	48.0
K20-1313	48.7	.	45.5	46.3	.	48.4	47.4	47.2
K21-2518	49.9	.	45.9	45.6	.	49.0	48.2	47.7
R19C-1081	50.6	.	46.5	45.5	.	47.0	47.3	47.4
R20C-1516	48.5	.	47.1	46.9	.	48.3	48.4	47.8
R21C-02295	49.8	.	46.5	46.0	.	47.0	48.5	47.6
R23PR-00043E	48.7	.	44.8	45.8	.	46.5	48.8	46.9
R23PR-00100E	49.4	.	47.2	47.4	.	46.6	49.8	48.1
S20-25571	51.5	.	48.3	44.2	.	49.0	46.8	48.0
S21-11102	50.5	.	46.3	47.7	.	47.7	49.7	48.4
S21-20276	50.1	.	48.1	47.1	.	48.6	48.8	48.5
S21-22067	49.0	.	46.3	47.0	.	47.2	47.5	47.4
S22PR-383E3	48.4	.	45.2	45.9	.	46.9	46.9	46.7
V18-2720R2	48.1	.	44.0	46.0	.	45.9	46.9	46.2
Mean	49.6	.	46.1	46.1	.	47.7	48.3	47.5
LSD(0.05)	.	.	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	.	.	2.1

† Estimated meal protein percentage is reported on a 13% moisture basis.

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TABLE 26 - PARENTAGE OF ENTRIES
UNIFORM GROUP IV-S-LATE 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	S16-7922	Commercial check	check		Conv	
2	AG45XF3	Commercial check	check		XF	
3	AG48XF2	Commercial check	check		XF	
4	AG49XF4	Commercial check	check		XF	
5	DA1601-18	DA0865-88F x Osage	Gillen		Conv	Low mature seed damage
6	DA1715-112F	TN11-5102 x DA1016-09F	Gillen		Conv	12.5% northern cultivar
7	DA1770-01F	DA10x05-17F x R12-712	Gillen		Conv	
8	K20-2470	e4993 / KS4117Ns	Schapaugh		Conv	
9	R18-14693:0004	S10-7543 x R13-354	Vieira		Conv	
10	R20-1870	R11-328 x S13-3851	Vieira		Conv	
11	R23PR-00037E	R15-2422*4 x CTV-DNR-1006	Vieira		E3	
12	R23PR-00055E	R18-14272*4 x CTV-DNR-1007	Vieira		E3	
13	R23PR-00068E	R18-14272*4 x CTV-DNR-1007	Vieira		E3	
14	S21-11211	SA13-1385/S16-14730	Feng Lin		Conv	
15	S21-15672	S17-17168/S17-5845	Feng Lin		Conv	
16	S21-20065	S16-15809/PI 592756	Feng Lin		Conv	
17	S21-7836	S16-15170/LD15-5782791	Feng Lin		Conv	
18	S22PR-329E3	S16-14730/S16-14730E3	Feng Lin		E3	
19	TN22-4618HOLL	Ellis-HOLL x LD14-3702	Pantalone		Conv	HOLN
20	TN22-4626N	Ellis-HOLL x K15-1310	Pantalone		Conv	
21	V17-2447R	S10-11200 x V11-3163	Zhang		RR1	
22	V18-4246R	Ellis x V11-3522	Zhang		RR1	
23	V19-0861	Ellis x V11-2149	Zhang		Conv	
24	V19-1453STS	V09-0610 x S12-11916	Zhang		Conv	

† Conv= Conventional(non-transgenic),DIC - Dicamba resistance Xtend®, E3= Enlist E3®, LL=Liberty Link®, RR1=Roundup Ready®, RR2=Roundup Ready 2 Yield®,

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 27 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST IV-S-LATE 2025

STRAIN/ VARIETY	AVG.		YIELD†			PROTEIN‡			OIL‡		
	RANK	RANK	2025	24-24	23-25	2025	24-25	23-25	2025	24-25	23-25
S16-7922	2	7	64.0	63.1	61.2	34.9	34.6	34.8	19.2	20.4	20.1
AG45XF3	4	8	62.5	.	.	35.1	.	.	19.0	.	.
AG48XF2	8	10	60.9	62.2	61.9	34.7	34.9	34.8	19.1	20.0	19.9
AG49XF4	1	5	64.9	.	.	34.9	.	.	19.3	.	.
DA1601-18	12	12	59.2	60.5	58.3	35.8	35.4	35.5	18.7	19.7	19.5
DA1715-112F	13	13	58.6	.	.	37.3	.	.	18.7	.	.
DA1770-01F	19	16	56.4	.	.	36.7	.	.	18.2	.	.
K20-2470	3	7	62.7	.	.	35.8	.	.	19.4	.	.
R18-14693:0004	21	16	53.9	.	.	35.2	.	.	18.7	.	.
R20-1870	20	15	56.3	.	.	35.8	.	.	19.4	.	.
R23PR-00037E	24	21	47.3	.	.	35.6	.	.	18.4	.	.
R23PR-00055E	22	18	52.1	.	.	35.6	.	.	17.9	.	.
R23PR-00068E	23	18	50.8	.	.	36.8	.	.	17.8	.	.
S21-11211	7	11	61.1	.	.	34.6	.	.	18.8	.	.
S21-15672	18	15	56.7	.	.	36.2	.	.	18.1	.	.
S21-20065	11	12	59.8	.	.	34.8	.	.	18.8	.	.
S21-7836	6	10	62.1	.	.	35.2	.	.	19.5	.	.
S22PR-329E3	14	14	58.6	.	.	34.2	.	.	18.9	.	.
TN22-4618HOLL	10	12	59.9	.	.	34.8	.	.	19.4	.	.
TN22-4626N	5	8	62.2	.	.	34.2	.	.	19.2	.	.
V17-2447R	17	13	57.2	.	.	34.7	.	.	19.5	.	.
V18-4246R	15	14	57.8	57.6	.	34.8	34.6	.	19.3	20.3	.
V19-0861	9	10	60.1	.	.	34.8	.	.	18.5	.	.
V19-1453STS	16	16	57.3	.	.	36.2	.	.	19.0	.	.
Mean	.	.	58.4	.	.	35.4	.	.	18.9	.	.
LSD(0.05)	.	.	6.5	.	.	0.9	.	.	0.5	.	.
LSD(0.10)	.	.	5.5	.	.	.	.	.	.	.	.
CV(%)	.	.	13.6	.	.	2.6	.	.	2.7	.	.

† Data not included in yield mean: 2023 Bossier City, Knoxville, Orange, Portageville(A), Starkville, and Warsaw; 2024 Jackson, Knoxville, Orange and Starkville; 2025 Bossier City, Jackson, Orange and Springfield.

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

TABLE 28 - GENERAL SUMMARY OF PERFORMANCE -Part 2
UNIFORM TEST IV-S-LATE 2025

STRAIN/ VARIETY	MEAL† PRO %	MAT INDEX	LOD	HT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
S16-7922	47.2	0	2.0	31	1.5	14.4	W		
AG45XF3	47.0	-4	1.4	32	2.1	14.4	P	LT	Tn
AG48XF2	46.6	-2	1.7	31	1.9	16.4	P	T	Br
AG49XF4	47.0	-2	1.4	32	2.1	14.4	P	T	Tn
DA1601-18	47.9	0	1.2	23	2.0	13.3	P	T	T
DA1715-112F	49.9	-2	1.4	27	1.7	17.1	P	T	T
DA1770-01F	48.8	0	1.6	26	1.8	15.4	P	T	T
K20-2470	48.2	2	1.6	30	2.5	15.7			
R18-14693:0004	47.0	-3	2.0	32	2.1	13.6	W	G	T
R20-1870	48.3	-3	1.6	32	2.1	15.9	P	G	B
R23PR-00037E	47.4	-3	1.9	33	2.3	14.2	P	G	T
R23PR-00055E	47.2	-3	1.6	29	2.3	14.6	P	G	T
R23PR-00068E	48.6	-2	1.7	33	2.0	13.9	P	G	T
S21-11211	46.3	0	1.5	32	1.7	14.8	P	T	Br
S21-15672	48.0	2	1.8	30	1.6	14.8	P	G	T
S21-20065	46.5	2	1.8	34	1.5	14.2	W	G	T
S21-7836	47.5	2	1.8	36	2.0	15.9	W	G	T
S22PR-329E3	45.8	0	1.2	28	3.0	13.9		G	T
TN22-4618HOLL	46.9	0	1.8	35	1.5	13.3	S	G	
TN22-4626N	46.0	2	1.4	35	1.7	13.4	W	G	
V17-2447R	46.8	2	1.6	38	1.9	14.0	W	LT	
V18-4246R	46.8	-1	1.7	35	1.8	14.5	W	T	
V19-0861	46.4	2	1.3	27	1.9	14.1	P	G	
V19-1453STS	48.5	-3	1.8	28	1.9	20.1	P	G	
Mean	47.4	-1	1.6	31	1.9	14.8			
LSD(0.05)	1.0	2	0.4	3	0.5	0.9			
CV(%)	2.1	532	34.0	13	34.0	8.5			

† Estimated meal protein content was added to the annual report in 2018.

**TABLE 29 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST IV-S-LATE 2025**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			RKN Gall Score (1-5 Scale)‡			SC	SC
	Race 2	Race 3	Race 5	PRK	SRK	JRK	RATING	SCORE
S16-7922	2.8	.	1.2	2.0	1.0	1.5	R	1
AG45XF3	5.0	.	1.0	3.0	5.0	2.8	R	1
AG48XF2	4.4	.	1.0	2.8	5.0	2.8	R	1
AG49XF4	4.3	.	1.2	3.8	5.0	4.5	R	1
DA1601-18	4.2	.	1.6	3.3	5.0	4.5	MS	4
DA1715-112F	4.3	.	3.4	3.8	2.3	4.3	R	1
DA1770-01F	4.5	.	2.4	4.5	2.3	4.5	R	1
K20-2470	4.8	.	2.0	4.3	5.0	4.3	R	1
R18-14693:0004	3.8	.	1.0	3.3	4.3	4.8	R	1
R20-1870	4.5	.	2.4	4.5	5.0	4.5	R	1
R23PR-00037E	.	.	1.8	3.8	5.0	4.0	R	1
R23PR-00055E	3.8	.	2.5	4.3	5.0	4.3	R	1
R23PR-00068E	.	.	3.0	3.5	5.0	3.3	R	1
S21-11211	2.8	.	2.0	5.0	4.5	5.0	R	1
S21-15672	3.8	.	1.0	3.5	2.3	3.0	R	1
S21-20065	4.8	.	2.8	4.0	5.0	4.3	S	5
S21-7836	1.8	.	1.2	5.0	2.8	5.0	R	1
S22PR-329E3	4.4	.	1.8	5.0	4.5	5.0	R	1
TN22-4618HOLL	4.8	.	1.8	4.3	1.5	2.7	R	1
TN22-4626N	4.8	.	4.3	5.0	3.3	5.0	R	1
V17-2447R	2.8	.	1.0	2.5	5.0	4.3	R	1
V18-4246R	3.5	.	1.8	2.5	5.0	3.0	R	1
V19-0861	4.5	.	1.2	4.8	3.8	4.8	R	1
V19-1453STS	4.2	.	1.6	4.0	4.3	5.0	R	1

†The race 2 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines)

Type 1.2.5.7 and HG Type 2.5.7, respectively. Results for race 3 were omitted.

‡The root-knot nematode (RKN) species used in these tests were Meloidogyne incognita (southern root knot = SRK), M. arenaria (peanut root knot = PRK), and M. javanica (Javanese root-knot = JRK) MR = mixed reaction.

TABLE 30 - SEED YIELD (BUSHELS PER ACRE)
UNIFORM TEST IV-S-LATE 2025 †

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
	27.1	83.1	80.5	33.6	48.7	74.4	23.3
AG45XF3	28.1	60.8	60.8	31.6	54.7	73.3	17.5
AG48XF2	32.3	67.0	63.6	34.7	47.6	72.4	19.7
AG49XF4	32.7	66.5	75.8	37.2	54.4	75.2	19.8
DA1601-18	28.9	41.8	75.0	35.4	32.8	58.8	36.3
DA1715-112F	28.6	59.5	74.6	29.7	38.4	53.7	27.6
DA1770-01F	27.7	60.8	70.2	30.3	39.9	56.8	28.3
K20-2470	28.9	72.6	82.9	35.8	44.4	67.6	20.6
R18-14693:0004	28.2	41.9	62.8	31.4	47.9	58.9	20.5
R20-1870	24.8	67.7	67.4	33.8	46.4	57.7	30.5
R23PR-00037E	26.1	46.2	59.8	31.4	32.4	56.5	22.3
R23PR-00055E	27.7	66.3	70.6	34.8	36.1	57.3	17.3
R23PR-00068E	26.5	54.5	61.3	31.9	37.0	57.7	14.2
S21-11211	24.1	76.7	67.5	29.6	42.9	58.6	25.9
S21-15672	26.9	61.5	67.3	31.8	43.1	59.2	15.7
S21-20065	25.9	68.7	72.7	40.1	44.6	55.5	21.6
S21-7836	26.0	84.1	78.8	42.3	49.5	55.8	20.9
S22PR-329E3	23.4	62.2	70.6	35.0	41.7	65.7	24.9
TN22-4618HOLL	27.7	69.5	70.8	43.2	49.7	54.6	25.6
TN22-4626N	25.4	74.0	69.0	30.6	55.0	60.5	16.2
V17-2447R	24.1	62.7	65.0	35.1	51.8	61.3	25.5
V18-4246R	24.6	55.3	64.6	32.2	48.8	57.5	19.7
V19-0861	30.8	66.6	67.5	21.7	44.7	57.6	31.6
V19-1453STS	23.7	59.6	59.4	36.3	45.2	49.2	17.3
Mean	27.1	63.7	69.1	33.7	44.9	60.7	22.6
LSD(0.05)	3.9	20.7	7.2	13.7	10.9	8.7	9.6
LSD(0.10)	3.3	17.3	6.0	11.4	9.1	7.2	8.0
CV(%)	8.8	19.8	6.2	24.7	14.8	8.7	25.9

†Location data not included in Test Mean due to CV > 15%: Bossier City, Jackson, Orange, and Springfield.

TABLE 30 - SEED YIELD (BUSHELS PER ACRE) (continued)
UNIFORM TEST IV-S-LATE 2025 †

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	59.4	22.5	58.8	84.6	78.5	64.0
AG45XF3	61.3	18.7	63.2	78.9	79.8	62.5
AG48XF2	57.9	18.0	69.8	70.1	73.4	60.9
AG49XF4	62.0	19.5	62.9	73.7	81.8	64.9
DA1601-18	53.9	17.2	78.0	61.3	84.5	59.2
DA1715-112F	56.0	21.5	69.5	71.0	76.8	58.6
DA1770-01F	53.6	14.9	71.1	63.0	68.8	56.4
K20-2470	58.8	18.8	64.3	74.1	80.2	62.7
R18-14693:0004	54.0	14.2	45.4	65.7	67.9	53.9
R20-1870	54.1	16.8	54.0	73.3	72.6	56.3
R23PR-00037E	54.5	9.3	36.4	55.9	56.9	47.3
R23PR-00055E	52.6	12.4	38.1	65.3	69.4	52.1
R23PR-00068E	54.7	11.8	37.1	67.1	64.8	50.8
S21-11211	55.8	19.7	81.9	74.6	83.2	61.1
S21-15672	53.9	15.8	63.1	66.0	74.0	56.7
S21-20065	56.0	25.4	69.5	73.5	80.6	59.8
S21-7836	55.6	18.9	82.6	77.8	70.6	62.1
S22PR-329E3	52.7	20.0	71.9	75.8	66.6	58.6
TN22-4618HOLL	55.6	14.9	89.4	70.8	60.6	59.9
TN22-4626N	56.5	14.2	71.1	79.3	81.2	62.2
V17-2447R	61.3	21.4	55.3	67.4	71.8	57.2
V18-4246R	56.0	18.2	61.8	63.2	85.8	57.8
V19-0861	58.6	17.3	69.0	73.5	79.4	60.1
V19-1453STS	53.8	17.6	69.5	79.3	77.4	57.3
Mean	56.2	17.4	63.9	71.1	74.4	58.4
LSD(0.05)	4.2	9.3	14.0	6.4	11.5	6.5
LSD(0.10)	3.5	7.7	11.7	5.3	9.6	5.5
CV(%)	4.6	32.4	13.1	5.4	9.3	13.6

**TABLE 31 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP IV-S-LATE 2025**

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Pittsburg, KS
S16-7922	9/30	9/11	10/10	9/30	10/7	10/16	10/22
AG45XF3	-2	-2	-3	-5	0	-6	-13
AG48XF2	-2	7	-2	-4	1	-3	-10
AG49XF4	-3	4	-2	-1	0	-3	-4
DA1601-18	0	7	-1	2	0	-4	-4
DA1715-112F	-3	2	-2	-4	0	-1	-6
DA1770-01F	0	3	1	5	0	-1	-7
K20-2470	0	3	3	3	4	1	0
R18-14693:0004	-4	6	-4	-3	-1	-2	-11
R20-1870	-4	5	-1	0	0	-4	-13
R23PR-00037E	-3	1	-2	0	2	-2	-14
R23PR-00055E	-3	2	-4	2	2	-3	-14
R23PR-00068E	-2	6	-1	-1	0	-2	-14
S21-11211	1	5	-2	3	1	-2	-4
S21-15672	-1	-7	2	9	2	3	1
S21-20065	1	-5	2	9	5	1	-1
S21-7836	5	1	2	9	4	0	-3
S22PR-329E3	0	3	-3	9	4	-2	-10
TN22-4618HOLL	-1	-1	-2	9	0	-1	-8
TN22-4626N	0	5	1	6	2	2	-3
V17-2447R	0	7	-1	9	5	-1	-6
V18-4246R	-1	-2	0	3	4	-2	-6
V19-0861	1	2	1	5	1	4	-5
V19-1453STS	-2	-8	-3	-3	-1	-1	-3
Mean	-1	2	-1	3	2	-1	-6
LSD(0.05)	2	7	2	6	3	2	4
CV(%)	.	228	.	150	116	.	.

TABLE 31 - RELATIVE MATURITY (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	9/23	9/11	9/17	9/30
AG45XF3	-1	-4	-5	-4
AG48XF2	-2	-2	-6	-2
AG49XF4	-1	-5	-6	-2
DA1601-18	-1	-1	-1	0
DA1715-112F	2	-2	-2	-2
DA1770-01F	-1	-1	-1	0
K20-2470	2	3	3	2
R18-14693:0004	-1	-8	-8	-3
R20-1870	0	-3	-5	-3
R23PR-00037E	0	-5	-6	-3
R23PR-00055E	-2	-7	-7	-3
R23PR-00068E	-1	-4	-4	-2
S21-11211	-1	-2	-3	0
S21-15672	2	4	4	2
S21-20065	5	5	2	2
S21-7836	4	2	0	2
S22PR-329E3	0	0	-2	0
TN22-4618HOLL	-1	5	-1	0
TN22-4626N	-1	7	2	2
V17-2447R	2	4	-3	2
V18-4246R	-1	3	-5	-1
V19-0861	0	5	4	2
V19-1453STS	1	-7	-7	-3
Mean	0	-1	-2	-1
LSD(0.05)	2	4	2	2
CV(%)	277	.	.	.

TABLE 32 - PLANT HEIGHT (INCHES)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	32	31	46	24	28	39	28
AG45XF3	26	31	46	30	34	44	30
AG48XF2	28	29	43	27	27	44	31
AG49XF4	29	30	49	29	33	45	29
DA1601-18	21	16	30	17	16	35	29
DA1715-112F	26	23	38	20	23	40	32
DA1770-01F	26	22	38	20	24	36	31
K20-2470	25	27	41	28	27	42	32
R18-14693:0004	30	26	45	32	33	46	28
R20-1870	27	32	44	27	28	46	34
R23PR-00037E	28	33	46	32	29	50	26
R23PR-00055E	25	28	45	25	26	42	21
R23PR-00068E	30	34	47	31	30	47	22
S21-11211	25	33	44	30	27	45	30
S21-15672	29	28	45	23	28	45	27
S21-20065	32	33	44	32	28	44	36
S21-7836	28	45	45	30	30	46	31
S22PR-329E3	22	29	41	23	22	40	28
TN22-4618HOLL	26	40	47	32	30	46	29
TN22-4626N	25	36	45	29	36	47	29
V17-2447R	30	35	53	36	36	49	37
V18-4246R	28	31	48	33	33	49	36
V19-0861	25	26	40	16	21	40	31
V19-1453STS	25	23	39	23	27	43	26
Mean	27	30	44	27	28	44	30
LSD(0.05)	3	5	5	5	4	4	7
CV(%)	6	10	7	12	9	6	14

TABLE 32 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	32	22	21	23	41	31
AG45XF3	27	20	20	25	57	32
AG48XF2	26	19	21	27	50	31
AG49XF4	26	19	23	25	54	32
DA1601-18	22	18	17	18	36	23
DA1715-112F	27	19	21	22	39	28
DA1770-01F	25	18	19	18	38	26
K20-2470	26	18	18	23	52	30
R18-14693:0004	30	22	19	25	46	32
R20-1870	25	19	20	26	51	32
R23PR-00037E	31	19	19	32	48	33
R23PR-00055E	26	16	20	27	53	29
R23PR-00068E	30	20	20	29	54	33
S21-11211	25	19	22	26	57	32
S21-15672	30	18	19	21	41	30
S21-20065	33	27	24	22	50	34
S21-7836	30	21	33	39	58	36
S22PR-329E3	20	17	18	27	53	28
TN22-4618HOLL	28	21	27	35	57	35
TN22-4626N	28	20	31	38	59	35
V17-2447R	31	24	26	31	62	38
V18-4246R	30	21	24	32	58	35
V19-0861	26	16	18	19	42	27
V19-1453STS	24	17	19	25	40	28
Mean	27	20	22	26	50	31
LSD(0.05)	3	3	7	3	5	3
CV(%)	6	10	19	7	7	13

TABLE 33 - PLANT LODGING (1-5)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	2.3	1.3	4.0	1.0	2.8	3.3	1.0
AG45XF3	1.7	1.7	2.7	1.0	2.5	1.3	1.0
AG48XF2	1.3	1.3	4.0	1.7	2.8	2.0	1.0
AG49XF4	1.7	1.3	3.0	1.0	2.5	1.0	1.0
DA1601-18	1.3	1.0	2.3	1.0	1.7	1.0	1.0
DA1715-112F	1.0	1.0	3.0	1.0	2.2	2.3	1.0
DA1770-01F	1.0	1.0	4.0	1.0	2.2	2.7	1.0
K20-2470	2.0	1.0	4.0	1.0	2.5	1.7	1.0
R18-14693:0004	1.7	1.0	3.7	1.0	3.0	4.0	1.0
R20-1870	1.7	1.3	3.7	1.0	2.0	1.7	1.0
R23PR-00037E	2.0	1.7	3.0	1.0	2.5	3.0	1.0
R23PR-00055E	2.7	1.0	2.3	1.0	2.2	1.7	1.0
R23PR-00068E	1.7	1.3	3.7	1.0	2.3	2.7	1.0
S21-11211	1.7	1.0	4.0	1.0	2.2	1.3	1.0
S21-15672	2.0	1.7	3.7	1.0	3.0	1.7	1.0
S21-20065	2.0	1.0	3.3	1.0	2.7	2.7	1.0
S21-7836	1.0	2.7	4.0	1.0	2.3	1.3	1.0
S22PR-329E3	1.0	1.3	2.0	1.0	2.0	1.0	1.0
TN22-4618HOLL	1.3	2.0	3.3	1.0	2.3	1.7	1.0
TN22-4626N	1.0	1.0	2.7	1.0	2.2	1.7	1.0
V17-2447R	1.7	1.3	3.3	1.0	2.7	1.3	1.0
V18-4246R	2.0	1.3	3.3	1.0	2.5	2.0	1.0
V19-0861	1.0	1.0	3.3	1.0	1.8	1.7	1.0
V19-1453STS	1.7	1.0	4.7	1.0	2.5	3.0	1.0
Mean	1.6	1.3	3.4	1.0	2.4	2.0	1.0
LSD(0.05)	0.8	0.7	0.7	0.4	0.4	0.9	
CV(%)	29.5	34.8	13.1	22.9	10.6	26.4	0.0

TABLE 33 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	3.0	1.0	1.0	1.0	2.3	2.0
AG45XF3	1.0	1.0	1.0	1.0	1.3	1.4
AG48XF2	1.0	1.0	1.0	1.0	1.7	1.7
AG49XF4	1.0	1.0	1.0	1.0	1.5	1.4
DA1601-18	1.0	1.0	1.0	1.0	1.0	1.2
DA1715-112F	1.7	1.0	1.0	1.0	1.1	1.4
DA1770-01F	1.0	1.0	1.0	1.0	2.5	1.6
K20-2470	1.0	1.0	1.0	1.0	2.2	1.6
R18-14693:0004	1.7	1.0	1.0	1.0	4.2	2.0
R20-1870	1.0	1.0	1.0	1.0	2.6	1.6
R23PR-00037E	1.3	1.0	1.0	1.3	4.2	1.9
R23PR-00055E	1.0	1.0	1.0	1.0	3.0	1.6
R23PR-00068E	1.0	1.0	1.0	1.0	3.0	1.7
S21-11211	1.0	1.0	1.0	1.0	1.5	1.5
S21-15672	2.3	1.0	1.0	1.0	2.1	1.8
S21-20065	2.3	1.0	1.0	1.0	2.8	1.8
S21-7836	1.0	1.0	2.5	2.0	2.0	1.8
S22PR-329E3	1.0	1.0	1.0	1.0	1.0	1.2
TN22-4618HOLL	1.0	1.0	2.0	3.0	1.9	1.8
TN22-4626N	1.0	1.0	2.0	1.7	1.2	1.4
V17-2447R	1.0	1.0	1.0	1.0	2.3	1.6
V18-4246R	1.0	1.0	1.0	1.0	2.9	1.7
V19-0861	1.0	1.0	1.0	1.0	1.0	1.3
V19-1453STS	1.0	1.0	1.0	1.0	2.8	1.8
Mean	1.3	1.0	1.1	1.2	2.2	1.6
LSD(0.05)	0.6		0.3	0.3	0.9	0.4
CV(%)	29.3	.	12.6	14.3	25.8	34.5

TABLE 34 - SEED QUALITY (1-5)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	1.0	1.0	1.3	2.0	1.5	1.0	1.7
AG45XF3	2.3	1.7	2.3	2.0	1.5	2.0	1.7
AG48XF2	1.3	2.0	2.0	1.7	1.8	2.0	1.7
AG49XF4	2.3	1.7	2.7	2.0	1.5	2.0	1.0
DA1601-18	1.3	1.7	2.0	1.7	1.5	3.0	1.0
DA1715-112F	1.0	2.0	1.0	2.3	1.5	2.0	1.0
DA1770-01F	2.0	1.0	2.0	2.3	1.5	2.0	1.3
K20-2470	2.7	2.3	2.0	2.3	2.0	3.0	2.0
R18-14693:0004	1.0	3.3	3.0	2.0	1.7	1.0	1.0
R20-1870	1.0	2.7	2.3	1.7	2.2	2.0	1.0
R23PR-00037E	1.0	2.0	3.0	2.0	2.5	4.0	2.0
R23PR-00055E	1.3	1.7	2.7	2.3	2.2	2.0	2.3
R23PR-00068E	1.0	1.7	3.0	2.0	1.8	2.0	1.7
S21-11211	1.3	1.3	2.3	2.0	2.0	1.0	1.0
S21-15672	1.0	1.0	2.0	2.7	1.5	1.0	1.0
S21-20065	1.0	1.0	2.0	2.0	1.2	2.0	1.0
S21-7836	2.3	1.3	2.0	2.3	2.0	2.0	1.0
S22PR-329E3	3.3	3.0	2.0	3.3	2.7	3.0	3.0
TN22-4618HOLL	1.0	1.0	2.0	1.7	1.7	2.0	1.0
TN22-4626N	1.7	2.0	2.3	2.0	1.3	2.0	1.0
V17-2447R	2.0	2.0	2.0	1.7	1.5	2.0	1.7
V18-4246R	1.0	1.0	3.0	1.7	1.5	2.0	1.7
V19-0861	1.0	1.7	2.0	3.3	1.8	2.0	1.7
V19-1453STS	1.0	2.0	2.0	1.7	1.5	1.0	2.3
Mean	1.5	1.8	2.2	2.1	1.7	2.0	1.5
LSD(0.05)	0.6	1.4	0.5	1.1	0.4	.	1.0
CV(%)	24.8	47.6	14.4	32.9	15.2	.	42.0

TABLE 34 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	2.0	.	.	1.7	.	1.5
AG45XF3	2.0	.	.	3.0	.	2.1
AG48XF2	1.0	.	.	3.3	.	1.9
AG49XF4	2.0	.	.	3.7	.	2.1
DA1601-18	3.0	.	.	3.7	.	2.0
DA1715-112F	2.0	.	.	2.7	.	1.7
DA1770-01F	1.0	.	.	3.0	.	1.8
K20-2470	2.0	.	.	4.0	.	2.5
R18-14693:0004	2.0	.	.	3.0	.	2.1
R20-1870	2.0	.	.	4.0	.	2.1
R23PR-00037E	2.0	.	.	3.0	.	2.3
R23PR-00055E	2.0	.	.	4.0	.	2.3
R23PR-00068E	2.0	.	.	3.0	.	2.0
S21-11211	1.0	.	.	2.3	.	1.7
S21-15672	2.0	.	.	2.0	.	1.6
S21-20065	2.0	.	.	1.7	.	1.5
S21-7836	2.0	.	.	3.3	.	2.0
S22PR-329E3	3.0	.	.	3.3	.	3.0
TN22-4618HOLL	2.0	.	.	1.3	.	1.5
TN22-4626N	1.0	.	.	2.0	.	1.7
V17-2447R	1.0	.	.	3.0	.	1.9
V18-4246R	2.0	.	.	2.7	.	1.8
V19-0861	2.0	.	.	1.7	.	1.9
V19-1453STS	2.0	.	.	3.0	.	1.9
Mean	1.9	.	.	2.8	.	1.9
LSD(0.05)	.	.	.	0.8	.	0.5
CV(%)	.	.	.	17.7	.	34.4

**TABLE 35 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP IV-S-LATE 2025**

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	15.9	16.2	15.6	11.0	13.8	14.6	11.2
AG45XF3	16.0	15.5	15.2	10.8	14.6	16.5	10.7
AG48XF2	18.2	18.7	17.1	12.5	16.6	19.2	12.1
AG49XF4	15.0	15.9	16.1	11.6	13.5	16.6	11.0
DA1601-18	14.2	16.7	14.3	10.0	11.2	13.4	10.6
DA1715-112F	18.8	21.3	17.9	12.3	16.7	18.4	11.9
DA1770-01F	17.2	18.5	16.1	12.2	15.4	16.3	10.3
K20-2470	17.1	16.7	17.6	12.2	16.3	17.2	11.0
R18-14693:0004	15.0	17.0	14.3	10.7	12.5	15.0	10.1
R20-1870	17.8	18.5	16.4	12.7	16.0	18.0	11.3
R23PR-00037E	16.4	15.5	15.6	11.4	14.4	15.5	10.5
R23PR-00055E	16.8	16.5	14.6	12.3	14.4	15.2	11.5
R23PR-00068E	15.7	17.0	14.6	11.4	13.6	15.6	9.8
S21-11211	17.1	16.6	16.3	11.0	13.6	16.6	10.5
S21-15672	17.2	15.6	16.0	13.0	13.2	16.9	12.4
S21-20065	15.0	15.3	13.2	12.4	13.3	14.1	14.1
S21-7836	17.4	16.8	17.0	13.5	16.0	17.3	12.7
S22PR-329E3	13.8	17.0	14.0	11.1	14.6	15.0	10.0
TN22-4618HOLL	14.0	15.6	14.2	11.1	12.9	15.0	10.5
TN22-4626N	14.0	15.1	14.0	10.7	12.5	13.9	11.2
V17-2447R	15.8	15.4	14.0	12.0	14.7	14.3	11.1
V18-4246R	16.5	15.0	15.2	11.4	15.2	16.4	10.8
V19-0861	16.3	15.1	13.1	12.2	13.5	14.3	11.2
V19-1453STS	21.8	19.3	22.2	17.2	18.9	21.2	15.0
Mean	16.4	16.7	15.6	11.9	14.5	16.1	11.3
LSD(0.05)	1.8	2.8	0.8	1.5	1.1	.	1.4
CV(%)	6.6	10.1	3.1	7.5	4.7	.	7.8

TABLE 35 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	16.3	.	.	14.7	.	14.4
AG45XF3	18.0	.	.	13.2	.	14.4
AG48XF2	18.3	.	.	15.6	.	16.4
AG49XF4	17.0	.	.	14.1	.	14.4
DA1601-18	14.5	.	.	14.3	.	13.3
DA1715-112F	17.6	.	.	18.3	.	17.1
DA1770-01F	16.3	.	.	15.9	.	15.4
K20-2470	19.1	.	.	15.3	.	15.7
R18-14693:0004	14.2	.	.	13.1	.	13.6
R20-1870	15.8	.	.	16.2	.	15.9
R23PR-00037E	15.6	.	.	12.9	.	14.2
R23PR-00055E	16.2	.	.	13.3	.	14.6
R23PR-00068E	16.3	.	.	11.5	.	13.9
S21-11211	16.3	.	.	15.5	.	14.8
S21-15672	16.2	.	.	12.8	.	14.8
S21-20065	14.8	.	.	14.2	.	14.2
S21-7836	17.0	.	.	15.5	.	15.9
S22PR-329E3	17.1	.	.	13.5	.	13.9
TN22-4618HOLL	15.4	.	.	11.3	.	13.3
TN22-4626N	15.3	.	.	13.5	.	13.4
V17-2447R	15.4	.	.	12.9	.	14.0
V18-4246R	17.0	.	.	13.5	.	14.5
V19-0861	16.2	.	.	14.9	.	14.1
V19-1453STS	24.8	.	.	21.7	.	20.1
Mean	16.7	.	.	14.5	.	14.8
LSD(0.05)	.	.	.	2.0	.	0.9
CV(%)	.	.	.	8.2	.	8.5

TABLE 36 - OIL (%)†
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	20.1	.	18.8	.	.	18.8	17.1
AG45XF3	20.7	20.2	18.2	.	.	18.9	16.2
AG48XF2	20.7	19.6	17.9	.	.	18.9	17.1
AG49XF4	21.2	19.5	18.6	.	.	18.3	17.5
DA1601-18	20.4	18.7	17.8	.	.	18.3	17.1
DA1715-112F	20.7	18.6	18.3	.	.	17.7	16.5
DA1770-01F	19.7	18.4	17.1	.	.	17.3	17.0
K20-2470	21.3	20.1	18.4	.	.	18.1	18.3
R18-14693:0004	20.8	17.9	18.0	.	.	18.1	16.3
R20-1870	22.0	18.7	17.1	.	.	18.6	18.4
R23PR-00037E	20.1	18.4	17.2	.	.	17.2	17.2
R23PR-00055E	19.9	17.7	16.3	.	.	17.3	16.2
R23PR-00068E	19.6	18.6	16.2	.	.	16.7	16.5
S21-11211	20.9	18.5	17.7	.	.	17.9	17.7
S21-15672	19.3	18.9	17.3	.	.	17.1	16.7
S21-20065	19.6	19.9	18.0	.	.	18.4	16.3
S21-7836	21.2	20.2	17.9	.	.	18.8	17.9
S22PR-329E3	20.6	19.5	18.5	.	.	18.0	16.9
TN22-4618HOLL	21.1	20.3	18.7	.	.	18.7	16.4
TN22-4626N	20.9	19.9	18.1	.	.	18.3	17.2
V17-2447R	20.2	19.5	19.2	.	.	18.9	18.0
V18-4246R	21.1	20.3	18.2	.	.	18.6	16.9
V19-0861	20.2	19.5	17.0	.	.	17.9	15.9
V19-1453STS	20.6	20.3	18.2	.	.	18.7	16.4
Mean	20.5	19.3	17.9	.	.	18.1	17.0
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 36 - OIL (%)† (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	19.1	.	20.2	20.1	.	19.2
AG45XF3	18.5	.	20.0	19.3	.	19.0
AG48XF2	20.4	.	19.0	19.0	.	19.1
AG49XF4	20.0	.	19.7	19.3	.	19.3
DA1601-18	19.2	.	19.2	18.7	.	18.7
DA1715-112F	19.5	.	19.4	18.8	.	18.7
DA1770-01F	18.7	.	18.9	18.3	.	18.2
K20-2470	20.2	.	19.7	18.9	.	19.4
R18-14693:0004	20.1	.	19.5	19.3	.	18.7
R20-1870	20.3	.	20.1	19.8	.	19.4
R23PR-00037E	19.3	.	19.1	18.3	.	18.4
R23PR-00055E	18.5	.	19.2	18.2	.	17.9
R23PR-00068E	17.6	.	19.0	17.8	.	17.8
S21-11211	19.4	.	19.6	18.5	.	18.8
S21-15672	17.9	.	18.6	18.7	.	18.1
S21-20065	18.9	.	19.6	19.3	.	18.8
S21-7836	20.3	.	20.2	19.7	.	19.5
S22PR-329E3	20.0	.	19.1	18.2	.	18.9
TN22-4618HOLL	19.7	.	19.9	20.1	.	19.4
TN22-4626N	19.9	.	19.9	19.6	.	19.2
V17-2447R	20.7	.	20.4	18.9	.	19.5
V18-4246R	20.4	.	19.6	19.7	.	19.3
V19-0861	18.9	.	19.8	19.2	.	18.5
V19-1453STS	18.2	.	20.3	19.5	.	19.0
Mean	19.4	.	19.6	19.1	.	18.9
LSD(0.05)	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	2.7

TABLE 37 - PROTEIN (%)†
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	33.4	.	36.1	.	.	34.2	37.1
AG45XF3	32.9	34.9	36.5	.	.	33.2	38.1
AG48XF2	32.3	34.4	36.8	.	.	33.3	36.0
AG49XF4	31.5	36.7	36.7	.	.	34.4	35.3
DA1601-18	32.9	38.4	37.1	.	.	35.1	36.2
DA1715-112F	33.7	39.5	37.7	.	.	37.4	39.5
DA1770-01F	35.0	37.9	37.6	.	.	35.7	36.5
K20-2470	33.2	36.5	37.6	.	.	35.6	35.3
R18-14693:0004	31.8	39.0	35.9	.	.	34.9	37.0
R20-1870	31.5	38.2	39.4	.	.	35.4	35.7
R23PR-00037E	33.1	38.7	37.4	.	.	35.3	35.9
R23PR-00055E	32.4	37.3	38.9	.	.	34.6	37.0
R23PR-00068E	33.8	37.3	39.0	.	.	36.8	39.0
S21-11211	30.7	35.8	37.2	.	.	34.9	34.6
S21-15672	34.1	37.7	37.1	.	.	36.2	36.1
S21-20065	32.7	35.5	35.8	.	.	33.5	37.2
S21-7836	32.6	36.2	37.6	.	.	34.7	35.0
S22PR-329E3	31.3	35.7	34.7	.	.	33.8	36.1
TN22-4618HOLL	31.7	35.3	36.0	.	.	34.7	37.7
TN22-4626N	30.8	35.1	36.4	.	.	34.3	35.5
V17-2447R	33.0	36.7	35.6	.	.	34.2	35.5
V18-4246R	31.8	35.9	36.8	.	.	33.9	36.0
V19-0861	32.2	35.2	36.9	.	.	34.8	38.0
V19-1453STS	32.1	36.8	37.2	.	.	35.3	38.2
Mean	32.5	36.7	37.0	.	.	34.8	36.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 37 - PROTEIN (%)† (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	33.8	.	34.7	35.2	.	35.1
AG45XF3	35.3	.	34.1	35.6	.	35.1
AG48XF2	32.9	.	36.1	36.0	.	34.7
AG49XF4	34.1	.	34.8	36.0	.	34.9
DA1601-18	34.4	.	35.7	37.0	.	35.8
DA1715-112F	36.5	.	37.1	37.1	.	37.3
DA1770-01F	35.9	.	37.3	37.9	.	36.7
K20-2470	35.1	.	35.9	37.0	.	35.8
R18-14693:0004	32.3	.	35.2	35.2	.	35.2
R20-1870	32.8	.	36.0	37.5	.	35.8
R23PR-00037E	33.3	.	34.2	36.7	.	35.6
R23PR-00055E	34.7	.	33.9	36.3	.	35.6
R23PR-00068E	36.5	.	34.4	37.2	.	36.8
S21-11211	34.1	.	33.4	35.9	.	34.6
S21-15672	35.6	.	36.3	36.4	.	36.2
S21-20065	34.8	.	33.9	34.6	.	34.8
S21-7836	34.3	.	35.4	35.7	.	35.2
S22PR-329E3	32.9	.	34.3	35.0	.	34.2
TN22-4618HOLL	34.0	.	34.9	34.2	.	34.8
TN22-4626N	33.6	.	33.8	34.0	.	34.2
V17-2447R	32.8	.	33.7	35.9	.	34.7
V18-4246R	33.5	.	34.7	35.6	.	34.8
V19-0861	33.3	.	33.1	34.6	.	34.8
V19-1453STS	37.7	.	34.7	37.4	.	36.2
Mean	34.3	.	34.9	36.0	.	35.4
LSD(0.05)	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	2.6

TABLE 38 - ESTIMATED MEAL PROTEIN (%)†
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA
S16-7922	45.4	.	48.3	.	.	45.7	48.6
AG45XF3	45.1	47.5	48.5	.	.	44.4	49.4
AG48XF2	44.2	46.5	48.7	.	.	44.6	47.2
AG49XF4	43.5	49.6	49.0	.	.	45.8	46.5
DA1601-18	44.9	51.3	49.1	.	.	46.7	47.5
DA1715-112F	46.2	52.7	50.2	.	.	49.4	51.4
DA1770-01F	47.4	50.5	49.3	.	.	46.9	47.8
K20-2470	45.8	49.7	50.1	.	.	47.3	47.0
R18-14693:0004	43.6	51.6	47.6	.	.	46.3	48.0
R20-1870	43.9	51.1	51.7	.	.	47.2	47.6
R23PR-00037E	45.0	51.6	49.1	.	.	46.4	47.1
R23PR-00055E	44.0	49.3	50.5	.	.	45.5	48.0
R23PR-00068E	45.7	49.8	50.6	.	.	48.0	50.8
S21-11211	42.2	47.7	49.1	.	.	46.1	45.7
S21-15672	46.0	50.5	48.8	.	.	47.5	47.1
S21-20065	44.2	48.2	47.5	.	.	44.6	48.3
S21-7836	44.9	49.3	49.8	.	.	46.4	46.3
S22PR-329E3	42.9	48.2	46.3	.	.	44.8	47.2
TN22-4618HOLL	43.7	48.1	48.1	.	.	46.4	49.0
TN22-4626N	42.3	47.6	48.3	.	.	45.6	46.6
V17-2447R	44.9	49.6	47.9	.	.	45.8	47.1
V18-4246R	43.8	49.0	48.9	.	.	45.2	47.1
V19-0861	43.9	47.5	48.3	.	.	46.1	49.1
V19-1453STS	44.0	50.2	49.4	.	.	47.1	49.7
Mean	44.5	49.4	49.0	.	.	46.2	47.9
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 38 - ESTIMATED MEAL PROTEIN (%)† (continued)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	45.3	.	47.3	47.9	.	47.2
AG45XF3	47.0	.	46.3	48.0	.	47.0
AG48XF2	44.9	.	48.4	48.3	.	46.6
AG49XF4	46.3	.	47.0	48.5	.	47.0
DA1601-18	46.3	.	48.0	49.5	.	47.9
DA1715-112F	49.4	.	50.1	49.7	.	49.9
DA1770-01F	48.0	.	49.9	50.4	.	48.8
K20-2470	47.8	.	48.5	49.6	.	48.2
R18-14693:0004	44.0	.	47.6	47.4	.	47.0
R20-1870	44.8	.	49.0	50.8	.	48.3
R23PR-00037E	44.9	.	46.0	48.8	.	47.4
R23PR-00055E	46.3	.	45.5	48.2	.	47.2
R23PR-00068E	48.2	.	46.2	49.2	.	48.6
S21-11211	46.0	.	45.2	47.9	.	46.3
S21-15672	47.1	.	48.4	48.7	.	48.0
S21-20065	46.6	.	45.9	46.6	.	46.5
S21-7836	46.7	.	48.2	48.3	.	47.5
S22PR-329E3	44.7	.	46.0	46.5	.	45.8
TN22-4618HOLL	46.1	.	47.4	46.5	.	46.9
TN22-4626N	45.6	.	45.9	46.0	.	46.0
V17-2447R	44.9	.	46.0	48.1	.	46.8
V18-4246R	45.7	.	46.9	48.2	.	46.8
V19-0861	44.6	.	44.8	46.5	.	46.4
V19-1453STS	50.1	.	47.3	50.5	.	48.5
Mean	46.3	.	47.2	48.3	.	47.4
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	2.1

SUMMARY OF SEED FATTY ACIDS (%)
UNIFORM TEST IV-S-LATE 2025 †

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
S16-7922	11.3	3.3	24.3	54.5	6.6
AG45XF3	12.3	4.1	20.8	54.5	8.2
TN22-4618HOLL	9.0	3.5	57.9	26.8	3.0
Mean	10.8	3.6	34.3	45.3	5.9
LSD(0.05)	0.7	0.3	7.6	6.9	0.7
CV(%)	7.4	8.6	23.5	16.1	11.8

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

SEED PALMITIC ACID (%)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Knoxville, TN	Manhattan, KS	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	12.4	11.6	10.6	10.7	11.0	11.7	11.6	11.5	11.3	10.2	11.3
AG45XF3	12.2	12.3	12.6	12.6	12.2	12.7	12.3	12.5	11.6	12.3	12.3
TN22-4618HOLL	7.0	10.6	8.9	9.3	9.5	7.0	9.2	10.4	9.0	8.9	9.0
Mean	10.5	11.5	10.7	10.8	10.9	10.5	11.0	11.5	10.6	10.5	10.8
LSD(0.05)	.	.	.	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	.	.	.	7.4

SEED STEARIC ACID (%)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Knoxville, TN	Manhattan, KS	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	4.2	2.6	3.4	3.6	3.2	3.9	3.7	2.7	2.6	3.3	3.3
AG45XF3	4.8	3.3	3.5	4.1	4.2	5.0	4.7	3.9	3.8	4.0	4.1
TN22-4618HOLL	3.7	3.7	3.1	3.5	3.7	3.8	3.7	3.1	2.9	3.4	3.5
Mean	4.2	3.2	3.3	3.7	3.7	4.2	4.0	3.2	3.1	3.6	3.6
LSD(0.05)	.	.	.	.	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	.	.	.	.	8.6

SEED OLEIC ACID (%)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Knoxville, TN	Manhattan, KS	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	24.7	25.7	28.2	23.5	20.9	23.2	22.6	23.0	22.4	28.5	24.3
AG45XF3	23.1	22.0	18.4	20.0	23.0	20.7	24.1	19.4	19.2	18.6	20.8
TN22-4618HOLL	83.4	45.1	60.0	48.8	51.7	80.2	57.4	43.2	57.7	51.3	57.9
Mean	43.7	30.9	35.5	30.8	31.9	41.3	34.7	28.5	33.1	32.8	34.3
LSD(0.05)	.	.	.	.	.	.	.	.	.	.	7.6
CV(%)	.	.	.	.	.	.	.	.	.	.	23.5

SEED LINOLEIC ACID (%)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Knoxville, TN	Manhattan, KS	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	52.8	53.4	51.6	54.4	57.1	54.2	55.6	57.4	57.4	51.4	54.5
AG45XF3	53.0	55.7	56.1	54.7	52.6	53.6	49.8	57.0	57.4	55.4	54.5
TN22-4618HOLL	2.9	37.8	24.9	35.8	31.8	5.0	27.2	41.0	27.8	33.4	26.8
Mean	36.2	49.0	44.2	48.3	47.2	37.6	44.2	51.8	47.5	46.7	45.3
LSD(0.05)	.	.	.	.	.	.	.	.	.	.	6.9
CV(%)	.	.	.	.	.	.	.	.	.	.	16.1

SEED LINOLENIC ACID (%)
UNIFORM GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Knoxville, TN	Manhattan, KS	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-7922	6.0	6.7	6.2	7.7	7.8	7.0	6.5	5.4	6.4	6.6	6.6
AG45XF3	7.0	6.7	9.5	8.7	8.0	8.1	9.1	7.2	8.1	9.7	8.2
TN22-4618HOLL	3.0	2.8	3.1	2.7	3.3	4.1	2.6	2.4	2.7	3.0	3.0
Mean	5.3	5.4	6.3	6.4	6.4	6.4	6.1	5.0	5.7	6.4	5.9
LSD(0.05)	.	.	.	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	.	.	.	11.8

TABLE 39 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP IV-S-EARLY 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	AG43XF2	Commercial check	check		XF	
2	AG38XF3	Commercial check	check		XF	
3	LD15-3818	Commercial check	check		Conv	
4	S13-3851C	Commercial check	check		Conv	
5	DS1811-41	SS93-6181 x DS31-243	Rusty Smith	F5	Conv	Low mature seed damage, 25% exotic
6	DS1811-42	SS93-6181 x DS31-243	Rusty Smith	F5	Conv	Low mature seed damage, 25% exotic
7	K22-1464	LG16-2547 / U15-606207	Schapaugh		Conv	
8	K22-1467	LG16-2547 / U15-606207	Schapaugh		Conv	
9	K22-1571	HM11-W192 / SA14-5854	Schapaugh		Conv	
10	K22-1850	K15-1283 / SA14-5854	Schapaugh		Conv	
11	K22-1859	K15-1283 / SA14-5854	Schapaugh		Conv	
12	K22-2405	K15-1283 / LG17-5693	Schapaugh		Conv	
13	R22KB-07724	R16-253 x S13-2743C	Vieira		Conv	
14	R22KB-17158	PI568254 x Illini4218N	Vieira		Conv	
15	R23PR-00091E	R18-14502*4 x CTV-DNR-1007	Vieira		E3	
16	S22-13815	S16-12774/S17-13405	Feng Lin		Conv	
17	S22-16004	S17-17797/PI 592756	Feng Lin		Conv	
18	S22-24366	TX12-1061/S16-8898	Feng Lin		Conv	
19	S22-24401	TX12-1061/S16-8898	Feng Lin		Conv	
20	S22-3121	S16-15170/S17-2243	Feng Lin		Conv	
21	S22-4327	S17-1980/S17-2193	Feng Lin		Conv	
22	S22-6208	K16-1229/S17-2243	Feng Lin		Conv	
23	S22-7485	TN11-5140/S13-3851	Feng Lin		Conv	
24	S22PR-205E3	S16-7922/S16-7922E3	Feng Lin		E3	
25	S22PR-336E3	S16-14730/S16-14730E3	Feng Lin		E3	
26	SA19-8221	SA13-1385 x LD12-10534	Scaboo	F5	Conv	BSR, Rdc3
27	SA21-3592	SA13-2699 x LD15-5776793	Scaboo	F5	Conv	rhg1-b, Rps1c, Rdc3
28	SA21-5842	SA17-16316 x LD15-5776793	Scaboo	F5	Conv	rhg1-b, Rps1c, BSR, Rdc3
29	SA22-4986	SA13-1385 x U15-322140	Scaboo	F5	Conv	rhg1-b, Rdc3
30	SA22-5072	SA14-9653 x U15-322140	Scaboo	F5	Conv	rhg1-b, Rps1k, BSR, Rdc3
31	SA22-6057	SA17-21156 x U15-322140	Scaboo	F5	Conv	Rhg4, Rdc3
32	V20-0567	V13-3867 x MD 00-6015	Zhang		Conv	
33	V21-1211DI	V15-2050 x V14-0079	Zhang		Conv	
34	V21-1457	V15-2140 x V15-1795	Zhang		Conv	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®, RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®
‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

**TABLE 40 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST IV-S-EARLY 2025**

STRAIN/ VARIETY	SEED		AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
	YIELD†	RANK					Race 2	Race 3	Race 5		
AG43XF2	67.5	1	6	0	1.5	32	2.6	.	4.4	R	1
AG38XF3	56.2	18	16	-6	1.4	29	1.8	.	4.0	R	1
LD15-3818	53.9	23	23	-9	1.7	30	3.3	.	3.6	R	1
S13-3851C	61.3	10	14	-3	1.6	32	2.8	.	3.4	R	1
DS1811-41	58.3	14	20	-1	2.1	36	2.3	.	3.0	R	1
DS1811-42	53.7	24	22	-1	2.1	35	3.3	.	4.6	R	1
K22-1464	43.8	34	31	-15	1.9	29	1.3	.	4.0	R	1
K22-1467	54.1	22	17	-9	1.4	28	1.0	.	1.0	R	1
K22-1571	51.4	31	23	-9	1.9	30	3.8	.	3.8	R	1
K22-1850	50.1	32	21	-10	2.0	29	2.8	.	3.5	R	1
K22-1859	51.7	30	26	-11	1.7	31	1.0	.	2.2	R	1
K22-2405	53.6	25	24	-9	1.3	29	1.2	.	4.0	R	1
R22KB-07724	60.5	12	11	-5	1.3	31	1.5	.	3.2	R	1
R22KB-17158	63.3	8	8	-3	1.9	35	3.2	.	4.2	R	1
R23PR-00091E	57.3	15	19	3	2.2	36	3.3	.	3.0	R	1
S22-13815	66.5	2	10	4	2.9	39	1.8	.	2.0	S	5
S22-16004	60.6	11	15	4	1.8	28	2.6	.	3.0	S	5
S22-24366	63.9	5	12	5	1.8	29	1.3	.	1.0	S	5
S22-24401	66.3	3	7	6	1.8	31	1.0	.	1.0	SS	3
S22-3121	59.9	13	12	-1	1.4	31	1.0	.	1.4	R	1
S22-4327	63.5	6	9	0	1.3	32	1.6	.	2.0	R	1
S22-6208	63.1	9	11	-1	1.8	35	1.8	.	2.8	R	1
S22-7485	63.4	7	11	-2	1.4	33	2.3	.	2.8	R	1
S22PR-205E3	54.9	20	22	-2	1.7	37	1.0	.	1.0	R	1
S22PR-336E3	64.3	4	9	2	1.3	31	1.6	.	4.5	R	1
SA19-8221	52.4	26	19	-10	1.5	27	2.8	.	3.0	R	1
SA21-3592	54.2	21	23	-8	1.6	31	2.0	.	4.8	R	1
SA21-5842	51.8	29	25	-10	1	28	2.0	.	3.7	R	1
SA22-4986	56.6	16	17	-11	1.4	28	1.3	.	3.8	R	1
SA22-5072	45.8	33	25	-10	1.4	28	1.8	.	2.8	R	1
SA22-6057	52.0	28	21	-8	2.2	31	3.3	.	4.3	R	1
V20-0567	52.3	27	24	4	2.0	27	3.5	.	4.2	R	1
V21-1211DI	56.3	17	20	7	1.7	28	2.0	.	4.4	S	5
V21-1457	55.2	19	19	-2	1.6	28	1.5	.	4.0	S	5
Mean	57.0	.	.	-4	1.7	31	.	.	.	.	.
LSD(0.05)	9.9	.	.	5	0.4	3	.	.	.	.	.
LSD(0.10)	8.3	.	.	.	.	.	.	.	.	.	.
CV(%)	15.0	.	.	130	32.7	11	.	.	.	.	.

†Data not included in the mean due to CV >15%: Jackson, Knoxville, and Orange.

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

TABLE 41 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST IV-S-EARLY 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
AG43XF2	2.3	14.0	33.5	20.5	45.8	W	Lt	T
AG38XF3	2.3	15.5	35.9	19.1	48.1			
LD15-3818	3.0	14.1	34.4	20.7	47.1	W	Lt	B
S13-3851C	1.8	15.4	34.8	19.9	47.2	P	Lt	Tn
DS1811-41	2.0	13.8	34.3	18.9	46	P	Tw	Br
DS1811-42	2.1	13.7	36.3	17.4	47.7	P	Tw	Br
K22-1464	2.6	13.0	33.8	20.7	46.3			
K22-1467	2.4	14.8	33.9	21.1	46.6			
K22-1571	2.5	16.0	35.6	19.2	47.9			
K22-1850	2.2	15.0	34.1	20.5	46.6			
K22-1859	2.7	13.4	33.3	20.8	45.7			
K22-2405	2.3	15.2	34.6	19.5	46.7			
R22KB-07724	2.0	13.0	33.9	20.6	46.4	W	G	T
R22KB-17158	1.9	14.2	33.7	20.3	46	P	LT	T
R23PR-00091E	2.8	14.1	36.7	17.7	48.5	P	G	T
S22-13815	2.0	12.5	34.2	19.6	46.3	W	Lt	T
S22-16004	1.3	13.5	35.0	19.1	47	P	Lt	T
S22-24366	2.0	14.6	34.7	19.7	47	W+P	T	Br
S22-24401	2.2	14.0	35.4	18.9	47.5	P	T	Br
S22-3121	2.3	15.2	34.3	19.8	46.5	W	T	Br
S22-4327	2.7	16.3	34.4	19.4	46.4	P	Lt	T
S22-6208	1.8	12.8	34.6	19.4	46.7	P	T	Bl
S22-7485	2.0	14.8	34.2	20.2	46.5	P	Lt	T
S22PR-205E3	2.3	14.9	36.2	19.0	48.6	W	G	T
S22PR-336E3	2.3	14.0	34.8	18.5	46.4	P	Lt	T
SA19-8221	1.9	13.8	32.4	21.0	44.5	W	Lt	T
SA21-3592	1.9	13.5	33.7	19.9	45.8	P	Lt	T
SA21-5842	1.9	16.0	34.5	20.6	47.2	P	Lt	B
SA22-4986	2.1	14.4	32.6	20.7	44.6	W	Lt	T
SA22-5072	2.0	14.5	34.3	20.0	46.6	P	T	B
SA22-6057	2.1	13.2	33.6	20.4	45.9	W	Lt	B
V20-0567	1.6	14.7	34.8	19.0	46.7	P	G	
V21-1211DI	2.0	12.9	35.4	19.4	47.7	P	G	
V21-1457	2.1	14.7	35.8	18.4	47.7	W	G	
Mean	2.2	14.3	34.5	19.7	46.7			
LSD(0.05)	0.5	1.0	1.5	1.0	1.6			
LSD(0.10)	.	.	.	.	.			
CV(%)	28.1	7.3	3.8	4.3	3			

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

TABLE 42 - SEED YIELD (BUSHEL PER ACRE)
PRELIMINARY GROUP IV-S-EARLY 2025 †

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	67.4	22.7	45.0	70.8	63.9	62.3	68.1	68.7	67.5
AG38XF3	68.1	17.1	23.9	62.7	68.2	53.1	44.7	52.5	56.2
LD15-3818	61.9	21.0	37.3	57.6	77.2	49.9	42.5	57.5	53.9
S13-3851C	60.2	27.1	42.2	54.5	82.0	53.3	69.4	69.0	61.3
DS1811-41	60.1	30.8	39.2	46.8	36.4	52.2	68.2	64.3	58.3
DS1811-42	57.1	23.3	34.6	40.5	38.2	52.3	59.5	58.9	53.7
K22-1464	57.0	14.7	24.5	51.1	29.1	44.7	.	23.8	43.8
K22-1467	65.0	15.0	31.3	60.2	74.8	55.6	42.0	47.5	54.1
K22-1571	52.7	21.1	40.7	59.0	41.8	52.9	39.3	53.1	51.4
K22-1850	44.1	19.4	44.6	63.4	57.8	53.5	42.7	46.7	50.1
K22-1859	61.3	16.6	42.2	51.0	62.1	46.7	41.1	58.7	51.7
K22-2405	61.1	14.5	37.1	53.3	52.3	50.1	48.4	55.5	53.6
R22KB-07724	69.2	15.1	57.3	65.5	66.0	58.4	55.0	54.4	60.5
R22KB-17158	66.5	27.0	43.9	62.8	63.9	55.6	61.3	70.5	63.3
R23PR-00091E	63.1	30.1	45.7	47.6	45.2	52.8	57.4	65.9	57.3
S22-13815	66.1	23.5	46.1	53.1	49.2	54.3	74.7	84.3	66.5
S22-16004	63.6	21.6	38.3	56.4	73.3	50.3	62.2	70.3	60.6
S22-24366	77.9	31.5	57.6	58.7	64.1	51.3	63.4	68.0	63.9
S22-24401	78.1	25.5	53.5	64.0	60.0	53.1	71.6	64.8	66.3
S22-3121	76.1	24.4	52.0	63.4	64.2	54.0	58.0	48.1	59.9
S22-4327	74.6	25.1	50.4	58.8	74.4	58.7	60.8	64.5	63.5
S22-6208	71.7	24.5	51.8	51.7	72.7	54.7	73.1	64.4	63.1
S22-7485	69.6	22.5	53.4	49.3	76.7	54.4	70.4	73.5	63.4
S22PR-205E3	58.1	19.8	47.0	50.2	55.1	52.1	55.0	59.3	54.9
S22PR-336E3	70.9	26.4	46.8	56.3	78.7	54.8	73.7	66.2	64.3
SA19-8221	56.1	22.7	41.1	65.8	54.7	56.2	38.7	45.0	52.4
SA21-3592	53.2	19.0	35.8	54.3	71.9	51.8	47.8	64.2	54.2
SA21-5842	56.4	16.9	39.8	61.0	73.4	49.5	50.2	42.1	51.8
SA22-4986	65.3	13.7	35.5	63.6	85.5	52.5	.	46.4	56.6
SA22-5072	46.6	26.4	40.2	59.9	66.6	53.0	34.9	34.4	45.8
SA22-6057	63.6	13.1	47.5	43.0	48.9	55.1	49.3	49.2	52.0
V20-0567	62.7	22.4	50.6	55.6	86.5	50.9	53.4	39.0	52.3
V21-1211DI	74.4	15.5	50.3	46.4	87.3	51.8	52.2	56.8	56.3
V21-1457	68.1	17.9	39.9	53.9	72.6	52.9	57.9	43.2	55.2
Mean	63.8	21.4	43.1	56.2	64.0	53.1	55.8	56.8	57.0
LSD(0.05)	11.2	10.8	18.9	6.7	23.7	5.6	13.2	10.7	9.9
LSD(0.10)	9.3	9.0	15.7	5.6	19.7	4.6	11.0	8.9	8.3
CV(%)	8.6	24.4	21.5	5.8	18.2	5.2	11.6	9.3	15.0

† Data not included in the test mean due to CV > 15%: Jackson, Knoxville, and Orange.

**TABLE 43 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP IV-S-EARLY 2025**

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	10/4	9/22	10/2	10/7	.	10/13	9/2	9/9	9/26
AG38XF3	-7	-4	0	-5	.	-3	-19	-7	-6
LD15-3818	-4	-4	0	-7	.	-7	-22	-20	-9
S13-3851C	-2	2	0	0	.	0	-6	-16	-3
DS1811-41	-1	-1	0	0	.	1	-2	-4	-1
DS1811-42	-1	-4	1	3	.	-1	-2	-4	-1
K22-1464	-8	-12	0	-12	.	-17	-32	-24	-15
K22-1467	-7	-4	0	-10	.	-7	-19	-20	-9
K22-1571	-7	-4	1	-8	.	-7	-23	-19	-9
K22-1850	-6	-4	1	-8	.	-7	-24	-19	-10
K22-1859	-7	-8	-2	-10	.	-7	-23	-18	-11
K22-2405	-6	-8	0	-9	.	-7	-18	-17	-9
R22KB-07724	-5	2	0	-4	.	-1	-15	-12	-5
R22KB-17158	-1	-4	1	5	.	-2	-10	-11	-3
R23PR-00091E	2	6	4	0	.	2	3	4	3
S22-13815	1	4	4	4	.	5	7	8	4
S22-16004	1	6	0	4	.	9	3	7	4
S22-24366	2	5	0	4	.	10	5	8	5
S22-24401	3	7	1	5	.	8	8	9	6
S22-3121	-2	2	1	-2	.	0	2	-5	-1
S22-4327	-1	5	1	-3	.	-2	0	-3	0
S22-6208	-2	4	0	0	.	0	-4	-6	-1
S22-7485	-2	4	0	-1	.	-1	-9	-4	-2
S22PR-205E3	-4	-4	0	-1	.	-2	-5	-2	-2
S22PR-336E3	-2	5	2	1	.	5	2	-2	2
SA19-8221	-5	-8	0	-8	.	-7	-21	-20	-10
SA21-3592	-7	0	0	-10	.	-7	-17	-18	-8
SA21-5842	-8	-8	0	-6	.	-8	-22	-20	-10
SA22-4986	-7	-11	0	-8	.	-8	-27	-20	-11
SA22-5072	-7	-3	-1	-11	.	-7	-22	-20	-10
SA22-6057	-8	-8	0	-6	.	-3	-17	-17	-8
V20-0567	2	5	0	2	.	8	4	5	4
V21-1211DI	2	5	1	10	.	12	9	8	7
V21-1457	-4	-3	0	1	.	6	-6	-4	-2
Mean	-3	-1	0	-3	.	-1	-9	-8	-4
LSD(0.05)	3	6	2	5	.	2	4	8	5
CV(%)	.	.	918	.	.	.	.	.	.

TABLE 44 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	41	20	27	41	38	35	24	29	32
AG38XF3	39	20	21	40	37	34	19	23	29
LD15-3818	38	22	25	40	39	33	18	23	30
S13-3851C	42	22	26	42	41	34	22	26	32
DS1811-41	48	27	26	46	41	39	29	31	36
DS1811-42	40	30	30	46	39	37	27	30	35
K22-1464	38	19	24	40	36	31	17	24	29
K22-1467	34	15	27	39	38	32	17	22	28
K22-1571	39	20	27	41	36	36	20	24	30
K22-1850	38	16	29	39	36	33	18	21	29
K22-1859	40	22	26	40	37	32	21	27	31
K22-2405	40	16	28	39	36	34	22	23	29
R22KB-07724	43	20	28	41	40	31	25	25	31
R22KB-17158	47	22	30	48	43	36	26	31	35
R23PR-00091E	48	27	32	46	44	38	26	30	36
S22-13815	45	31	33	48	37	39	43	36	39
S22-16004	38	17	20	38	35	37	22	19	28
S22-24366	39	19	23	39	33	39	20	18	29
S22-24401	45	16	25	43	38	41	24	20	31
S22-3121	42	20	30	43	37	34	24	23	31
S22-4327	43	20	28	41	42	32	23	29	32
S22-6208	43	24	34	44	40	38	27	29	35
S22-7485	44	22	31	41	40	34	27	28	33
S22PR-205E3	47	26	35	49	41	39	28	31	37
S22PR-336E3	43	18	24	38	40	28	28	28	31
SA19-8221	36	19	25	38	35	29	19	20	27
SA21-3592	35	21	27	43	38	35	20	25	31
SA21-5842	38	19	15	40	35	33	20	24	28
SA22-4986	38	18	26	39	36	31	16	20	28
SA22-5072	37	15	28	40	39	31	18	21	28
SA22-6057	40	22	27	42	40	35	21	24	31
V20-0567	38	18	22	37	35	32	19	16	27
V21-1211DI	34	15	24	40	40	36	19	17	28
V21-1457	35	21	23	38	35	35	19	18	28
Mean	40	21	26	41	38	34	22	24	31
LSD(0.05)	9	8	9	4	5	4	5	4	3
CV(%)	11	20	16	5	6	5	12	8	11

TABLE 45 - PLANT LODGING (1-5)
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	3.5	1.0	2.8	1.0	1.0	1.0	1.0	1.0	1.5
AG38XF3	3.0	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.4
LD15-3818	4.0	1.0	2.5	1.5	1.0	2.0	1.0	1.0	1.7
S13-3851C	3.5	1.0	2.5	1.0	1.5	1.0	1.0	1.0	1.6
DS1811-41	4.0	1.0	3.3	1.5	2.0	2.0	2.0	1.0	2.1
DS1811-42	4.0	1.0	3.5	2.0	2.0	2.0	1.5	1.0	2.1
K22-1464	4.0	1.5	2.3	2.5	1.5	1.5	1.0	1.0	1.9
K22-1467	3.0	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.4
K22-1571	4.0	1.0	3.3	1.5	2.0	1.5	1.0	1.0	1.9
K22-1850	4.5	1.0	3.8	2.5	1.0	1.0	1.0	1.0	2.0
K22-1859	3.5	1.0	2.8	2.0	1.5	1.0	1.0	1.0	1.7
K22-2405	2.0	1.0	2.3	1.5	1.0	1.0	1.0	1.0	1.3
R22KB-07724	2.0	1.5	2.3	1.0	1.0	1.0	1.0	1.0	1.3
R22KB-17158	3.5	1.0	3.3	2.0	2.0	1.5	1.0	1.0	1.9
R23PR-00091E	4.0	1.0	3.0	2.0	2.5	2.0	1.5	1.5	2.2
S22-13815	5.0	1.0	4.0	2.0	1.5	2.5	5.0	2.0	2.9
S22-16004	4.0	1.0	2.0	2.0	1.0	2.5	1.0	1.0	1.8
S22-24366	3.0	1.0	3.3	2.0	1.0	2.0	1.0	1.0	1.8
S22-24401	3.0	1.0	3.0	2.0	1.5	2.0	1.0	1.0	1.8
S22-3121	2.5	1.5	2.5	1.0	1.0	1.0	1.0	1.0	1.4
S22-4327	2.0	1.0	2.8	1.0	1.0	1.0	1.0	1.0	1.3
S22-6208	3.0	1.5	3.0	1.5	1.5	1.5	1.5	1.0	1.8
S22-7485	2.5	1.0	2.8	1.0	1.0	1.0	1.0	1.0	1.4
S22PR-205E3	2.5	1.5	3.0	2.0	1.0	1.0	1.5	1.0	1.7
S22PR-336E3	2.5	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.3
SA19-8221	2.0	1.5	2.3	1.5	1.5	1.0	1.0	1.0	1.5
SA21-3592	3.5	1.0	2.5	2.0	1.0	1.0	1.0	1.0	1.6
SA21-5842	3.0	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.4
SA22-4986	2.5	1.0	2.3	1.5	1.0	1.0	1.0	1.0	1.4
SA22-5072	2.5	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.4
SA22-6057	4.0	1.0	3.5	2.0	3.0	2.0	1.0	1.0	2.2
V20-0567	4.5	1.0	2.3	2.5	1.5	2.0	1.0	1.0	2.0
V21-1211DI	3.5	1.0	2.0	2.0	1.0	2.0	1.0	1.0	1.7
V21-1457	3.0	1.0	2.0	1.5	1.0	2.0	1.0	1.0	1.6
Mean	3.3	1.1	2.7	1.6	1.3	1.4	1.2	1.0	1.7
LSD(0.05)	1.7	0.6	1.1	0.9	1.1	0.8	0.5	0.5	0.4
CV(%)	26.3	27.3	19.9	26.0	39.4	26.6	19.2	25.7	32.7

TABLE 46 - SEED QUALITY (1-5)
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	3.0	3.0	1.2	2	1.5	2.0	.	3.0	2.3
AG38XF3	3.0	3.0	1.8	2	1.0	2.0	.	3.0	2.3
LD15-3818	3.0	5.0	2.0	3	1.0	3.0	.	4.0	3.0
S13-3851C	3.0	1.5	1.8	1	1.0	2.0	.	2.0	1.8
DS1811-41	3.0	3.0	1.8	2	1.0	1.0	.	2.0	2.0
DS1811-42	3.0	2.5	2.0	3	1.0	2.0	.	1.0	2.1
K22-1464	3.0	3.5	3.0	2	1.5	3.0	.	2.5	2.6
K22-1467	3.0	3.0	2.2	3	1.0	2.0	.	3.0	2.4
K22-1571	3.0	3.5	2.2	2	1.5	2.0	.	3.0	2.5
K22-1850	3.0	3.0	1.8	3	1.0	2.0	.	2.0	2.2
K22-1859	3.0	3.0	2.2	2	1.0	3.0	.	4.5	2.7
K22-2405	3.0	3.5	2.0	2	1.0	2.0	.	2.5	2.3
R22KB-07724	3.0	2.5	1.5	2	1.0	1.0	.	2.5	2.0
R22KB-17158	3.0	2.5	1.5	2	1.0	2.0	.	1.5	1.9
R23PR-00091E	3.0	2.5	2.5	4	3.0	2.0	.	3.0	2.8
S22-13815	3.0	3.0	2.0	2	1.0	1.0	.	1.5	2.0
S22-16004	2.0	2.0	1.2	1	1.0	1.0	.	1.0	1.3
S22-24366	2.0	3.0	1.5	2	1.5	2.0	.	2.0	2.0
S22-24401	3.0	3.0	1.8	2	1.0	2.0	.	2.5	2.2
S22-3121	3.0	2.0	1.8	2	1.0	2.0	.	4.0	2.3
S22-4327	3.0	3.0	2.3	3	1.0	3.0	.	4.0	2.7
S22-6208	2.0	2.5	1.3	2	1.0	2.0	.	2.0	1.8
S22-7485	3.0	2.5	1.2	1	1.0	1.0	.	3.5	2.0
S22PR-205E3	3.0	3.5	1.8	2	1.0	2.0	.	2.5	2.3
S22PR-336E3	3.0	2.5	3.0	3	1.0	2.0	.	2.0	2.3
SA19-8221	2.0	2.0	1.8	2	1.0	2.0	.	2.5	1.9
SA21-3592	2.0	2.5	1.8	1	1.0	2.0	.	3.0	1.9
SA21-5842	2.0	2.5	2.0	2	1.0	2.0	.	2.0	1.9
SA22-4986	3.0	3.0	1.5	1	1.0	2.0	.	3.0	2.1
SA22-5072	2.0	3.0	1.8	2	1.0	2.0	.	2.5	2.0
SA22-6057	2.5	3.5	1.5	2	1.5	2.0	.	2.0	2.1
V20-0567	2.0	2.5	1.0	1	1.0	2.0	.	2.0	1.6
V21-1211DI	2.0	3.0	1.5	3	1.0	2.0	.	2.0	2.0
V21-1457	3.0	2.5	1.2	2	1.0	2.0	.	3.0	2.1
Mean	2.7	2.8	1.8	2.1	1.1	2.0	.	2.5	2.2
LSD(0.05)	0.2	1.4	0.8	.	0.6	.	.	1.8	0.5
CV(%)	4.5	24.5	21.7	.	23.9	.	.	33.7	28.1

TABLE 47 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	14.2	11.5	13.5	16	12.5	17.5	.	13.2	14.0
AG38XF3	17.7	12.5	14.4	17	14.3	18.6	.	13.9	15.5
LD15-3818	15.3	11.4	14.0	15	13.7	16.9	.	12.8	14.1
S13-3851C	16.4	12.1	14.0	17	13.3	19.0	.	15.8	15.4
DS1811-41	15.2	10.7	13.5	16	11.0	17.3	.	13.0	13.8
DS1811-42	15.3	10.0	13.5	16	11.1	16.7	.	14.0	13.7
K22-1464	13.4	11.0	13.7	13	12.5	14.9	.	11.7	13.0
K22-1467	15.9	11.7	14.9	15	14.1	19.0	.	12.5	14.8
K22-1571	16.5	14.1	16.2	17	14.3	20.5	.	13.8	16.0
K22-1850	15.3	14.1	14.6	16	13.6	18.2	.	13.3	15.0
K22-1859	13.8	11.9	14.1	14	13.0	15.7	.	11.0	13.4
K22-2405	16.4	12.9	15.4	15	14.6	19.1	.	12.9	15.2
R22KB-07724	13.0	11.3	12.0	14	11.9	16.6	.	12.1	13.0
R22KB-17158	15.4	11.2	12.9	17	12.4	17.7	.	13.2	14.2
R23PR-00091E	14.5	13.3	13.3	15	10.9	16.6	.	14.5	14.1
S22-13815	13.7	8.4	12.4	14	11.3	15.1	.	12.0	12.5
S22-16004	14.4	10.9	11.1	15	13.1	15.2	.	14.5	13.5
S22-24366	16.6	11.0	12.7	15	13.5	18.0	.	15.7	14.6
S22-24401	15.7	13.0	12.0	15	12.3	16.5	.	13.5	14.0
S22-3121	16.6	11.8	13.5	17	13.9	18.5	.	15.4	15.2
S22-4327	17.1	14.3	15.4	17	14.5	20.5	.	15.3	16.3
S22-6208	14.0	10.4	11.5	14	11.5	15.9	.	12.2	12.8
S22-7485	16.5	13.1	12.8	16	11.7	18.7	.	15.0	14.8
S22PR-205E3	16.0	13.0	14.4	17	12.4	18.8	.	13.0	14.9
S22PR-336E3	14.2	11.6	12.6	15	13.2	17.8	.	13.6	14.0
SA19-8221	14.5	11.8	12.6	15	12.4	19.1	.	11.6	13.8
SA21-3592	14.5	11.8	12.5	15	12.3	17.1	.	12.0	13.5
SA21-5842	17.0	13.2	15.9	17	15.0	21.0	.	13.5	16.0
SA22-4986	14.5	12.5	13.6	16	12.9	18.9	.	12.9	14.4
SA22-5072	15.5	14.0	13.5	15	12.6	18.0	.	12.6	14.5
SA22-6057	14.1	10.4	11.8	16	12.7	16.7	.	11.3	13.2
V20-0567	16.5	11.0	11.5	17	13.6	17.7	.	15.8	14.7
V21-1211DI	13.9	11.3	10.5	14	11.1	15.2	.	14.3	12.9
V21-1457	17.2	12.0	12.5	15	13.8	18.3	.	13.7	14.7
Mean	15.3	11.9	13.3	15.5	12.9	17.7	.	13.4	14.3
LSD(0.05)	0.9	2.5	1.2	.	1.8	.	.	0.8	1.0
CV(%)	2.9	10.1	4.3	.	7.0	.	.	2.9	7.3

TABLE 48 - OIL (%)†
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	19.7	.	21.5	19.4	.	20.7	21.8	20.2	20.5
AG38XF3	17.6	.	18.7	18.1	.	19.4	19.6	20.9	19.1
LD15-3818	19.5	.	20.7	19.3	.	20.2	21.5	23.3	20.7
S13-3851C	18.1	.	21.1	18.8	.	19.8	20.7	21.1	19.9
DS1811-41	17.5	.	20.1	17.5	.	19.4	20.2	18.8	18.9
DS1811-42	17.3	.	19.7	16.9	.	18.8	19.5	12.3	17.4
K22-1464	20.0	.	19.9	19.3	.	21.1	21.7	22.5	20.7
K22-1467	19.7	.	20.6	19.2	.	21.3	22.1	23.6	21.1
K22-1571	18.4	.	18.4	18.2	.	19.1	19.8	21.4	19.2
K22-1850	19.7	.	20.5	18.8	.	20.6	20.9	22.3	20.5
K22-1859	19.5	.	20.6	19.3	.	21.2	21.0	23.3	20.8
K22-2405	18.8	.	19.6	18.5	.	19.9	19.4	20.7	19.5
R22KB-07724	18.9	.	21.1	19.4	.	20.4	21.6	22.3	20.6
R22KB-17158	18.5	.	20.5	19.1	.	20.5	22.1	21.3	20.3
R23PR-00091E	16.9	.	17.3	16.9	.	18.7	18.7	17.9	17.7
S22-13815	18.8	.	20.0	18.2	.	19.3	21.3	20.2	19.6
S22-16004	18.3	.	19.0	18.4	.	19.4	20.1	19.3	19.1
S22-24366	19.2	.	20.4	18.5	.	18.9	21.4	20.0	19.7
S22-24401	18.2	.	19.5	18.0	.	18.1	20.3	19.5	18.9
S22-3121	19.5	.	20.6	19.1	.	18.5	20.5	20.5	19.8
S22-4327	18.6	.	19.9	17.8	.	18.8	20.8	20.5	19.4
S22-6208	18.6	.	20.2	18.0	.	19.8	20.0	19.5	19.4
S22-7485	18.2	.	19.8	19.5	.	19.3	22.8	21.3	20.2
S22PR-205E3	18.3	.	19.4	17.6	.	19.3	19.5	20.0	19.0
S22PR-336E3	18.5	.	18.9	18.1	.	19.0	19.3	17.3	18.5
SA19-8221	20.2	.	21.1	19.7	.	20.3	21.6	23.3	21.0
SA21-3592	18.7	.	20.1	19.2	.	20.2	20.0	21.5	19.9
SA21-5842	19.2	.	21.3	19.5	.	20.3	20.5	22.7	20.6
SA22-4986	19.7	.	21.0	19.3	.	20.8	20.8	22.6	20.7
SA22-5072	19.4	.	19.4	19.3	.	20.5	20.0	21.4	20.0
SA22-6057	19.0	.	20.6	19.2	.	20.5	21.2	21.7	20.4
V20-0567	18.1	.	19.3	18.4	.	18.5	20.6	19.0	19.0
V21-1211DI	19.0	.	19.7	18.3	.	20.2	19.8	19.1	19.4
V21-1457	17.6	.	19.4	17.8	.	18.8	18.7	18.1	18.4
Mean	18.7	.	20.0	18.6	.	19.8	20.6	20.6	19.7
LSD(0.05)	.	.	.	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	.	.	.	4.3

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

TABLE 49- PROTEIN (%)†
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	35.3	.	32.3	33.8	.	31.3	33.4	34.9	33.5
AG38XF3	38.4	.	36.5	35.5	.	33.3	35.9	35.5	35.9
LD15-3818	36.5	.	33.6	35.6	.	32.9	34.8	32.8	34.4
S13-3851C	38.8	.	32.8	35.2	.	33.9	34.1	34.1	34.8
DS1811-41	36.8	.	33.0	35.0	.	32.5	33.9	34.9	34.3
DS1811-42	37.2	.	34.0	35.7	.	33.9	34.9	42.3	36.3
K22-1464	35.0	.	35.9	34.3	.	31.4	33.3	32.8	33.8
K22-1467	35.8	.	35.1	34.5	.	31.9	33.8	32.0	33.9
K22-1571	37.6	.	37.7	35.4	.	34.8	36.4	31.9	35.6
K22-1850	35.7	.	34.2	35.2	.	32.5	34.8	32.4	34.1
K22-1859	35.0	.	34.2	34.0	.	30.3	34.7	31.9	33.3
K22-2405	35.9	.	35.3	34.9	.	33.0	35.8	32.8	34.6
R22KB-07724	36.1	.	32.5	33.9	.	33.0	34.6	33.2	33.9
R22KB-17158	36.5	.	33.7	34.8	.	32.2	32.1	33.2	33.7
R23PR-00091E	37.9	.	36.8	36.5	.	34.7	36.8	37.7	36.7
S22-13815	35.8	.	34.0	34.4	.	34.0	33.0	34.2	34.2
S22-16004	35.8	.	35.1	34.6	.	33.7	34.4	36.4	35.0
S22-24366	35.4	.	34.0	34.1	.	34.6	34.5	35.8	34.7
S22-24401	37.0	.	34.4	35.2	.	35.9	33.8	36.3	35.4
S22-3121	34.2	.	33.3	34.4	.	33.6	34.8	35.6	34.3
S22-4327	35.8	.	33.8	34.9	.	33.8	34.5	33.8	34.4
S22-6208	36.3	.	33.8	34.5	.	32.7	35.2	35.4	34.6
S22-7485	38.6	.	35.3	34.1	.	35.0	27.6	34.4	34.2
S22PR-205E3	37.5	.	35.4	36.6	.	35.2	37.1	35.5	36.2
S22PR-336E3	34.3	.	34.6	34.8	.	33.7	34.9	36.3	34.8
SA19-8221	33.6	.	32.4	32.1	.	30.9	33.5	31.6	32.4
SA21-3592	35.7	.	34.0	33.3	.	32.3	35.2	32.0	33.7
SA21-5842	36.3	.	34.1	34.4	.	32.8	36.1	33.3	34.5
SA22-4986	33.8	.	32.5	33.0	.	31.1	34.4	30.7	32.6
SA22-5072	36.6	.	35.0	34.2	.	32.0	35.0	32.9	34.3
SA22-6057	35.0	.	32.9	34.2	.	32.5	35.2	31.8	33.6
V20-0567	36.4	.	33.9	34.0	.	34.7	34.1	35.6	34.8
V21-1211DI	35.1	.	34.3	35.9	.	33.4	36.8	36.8	35.4
V21-1457	37.8	.	33.6	34.3	.	34.9	37.2	36.9	35.8
Mean	36.2	.	34.2	34.6	.	33.2	34.6	34.3	34.5
LSD(0.05)	.	.	.	.	.	.	.	.	1.5
CV(%)	.	.	.	.	.	.	.	.	3.8

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

TABLE 50- ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP IV-S-EARLY 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Orange, VA	Ottawa, KS	Stoneville, MS	Stuttgart, AR	Test Mean
AG43XF2	47.8	.	44.7	45.6	.	42.9	46.4	47.5	45.8
AG38XF3	50.7	.	48.8	47.1	.	45.0	48.5	48.8	48.1
LD15-3818	49.3	.	46.1	47.9	.	44.8	48.2	46.5	47.1
S13-3851C	51.5	.	45.2	47.1	.	46.0	46.8	47.0	47.2
DS1811-41	48.5	.	44.9	46.1	.	43.8	46.1	46.7	46.0
DS1811-42	48.9	.	46.0	46.7	.	45.4	47.1	52.4	47.7
K22-1464	47.6	.	48.7	46.2	.	43.2	46.3	46.0	46.3
K22-1467	48.5	.	48.1	46.5	.	44.0	47.2	45.5	46.6
K22-1571	50.1	.	50.2	47.0	.	46.7	49.4	44.1	47.9
K22-1850	48.3	.	46.8	47.1	.	44.5	47.8	45.3	46.6
K22-1859	47.3	.	46.8	45.8	.	41.7	47.7	45.2	45.7
K22-2405	48.1	.	47.7	46.6	.	44.7	48.3	45.0	46.7
R22KB-07724	48.4	.	44.8	45.8	.	45.1	48.0	46.4	46.4
R22KB-17158	48.7	.	46.1	46.7	.	44.0	44.8	45.9	46.0
R23PR-00091E	49.6	.	48.4	47.8	.	46.4	49.2	49.9	48.5
S22-13815	47.9	.	46.2	45.7	.	45.7	45.7	46.6	46.3
S22-16004	47.6	.	47.1	46.1	.	45.4	46.8	49.0	47.0
S22-24366	47.6	.	46.4	45.4	.	46.4	47.7	48.6	47.0
S22-24401	49.2	.	46.4	46.6	.	47.7	46.1	49.0	47.5
S22-3121	46.2	.	45.6	46.1	.	44.8	47.5	48.7	46.5
S22-4327	47.8	.	45.9	46.1	.	45.2	47.4	46.2	46.4
S22-6208	48.5	.	46.0	45.7	.	44.3	47.8	47.8	46.7
S22-7485	51.3	.	47.8	46.1	.	47.2	38.8	47.5	46.5
S22PR-205E3	49.9	.	47.7	48.3	.	47.3	50.1	48.2	48.6
S22PR-336E3	45.7	.	46.4	46.1	.	45.2	47.0	47.7	46.4
SA19-8221	45.8	.	44.6	43.5	.	42.1	46.4	44.8	44.5
SA21-3592	47.7	.	46.3	44.7	.	43.9	47.9	44.3	45.8
SA21-5842	48.8	.	47.1	46.5	.	44.7	49.3	46.8	47.2
SA22-4986	45.8	.	44.7	44.4	.	42.7	47.1	43.1	44.6
SA22-5072	49.4	.	47.2	46.1	.	43.7	47.6	45.5	46.6
SA22-6057	47.0	.	45.0	46.0	.	44.5	48.5	44.1	45.9
V20-0567	48.3	.	45.7	45.3	.	46.3	46.6	47.8	46.7
V21-1211DI	47.1	.	46.4	47.7	.	45.5	49.8	49.4	47.7
V21-1457	49.9	.	45.3	45.4	.	46.8	49.7	49.0	47.7
Mean	48.4	.	46.5	46.2	.	44.9	47.3	47.0	46.7
LSD(0.05)	.	.	.	.	.	.	.	.	1.6
CV(%)	.	.	.	.	.	.	.	.	3.0

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 51 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP IV-S-LATE 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	S16-7922	Commercial check	check		Conv	
2	AG45XF3	Commercial check	check		XF	
3	AG48XF2	Commercial check	check		XF	
4	AG49XF4	Commercial check	check		XF	
5	K22-5083	K16-1914 / TN17-4414	Schapaugh		Conv	
6	K22-5529	K15-1874 / S13-1955C	Schapaugh		Conv	
7	K22-5544	K15-1874 / S13-1955C	Schapaugh		Conv	
8	K22-5558	K15-1874 / S13-1955C	Schapaugh		Conv	
9	K22-6882	K15-1874 / DA1134-015F	Schapaugh		Conv	
10	K22-6983	DA1134-015F / K15-1855	Schapaugh		Conv	
11	R22KB-00870	LD12-459 x R16-253	Vieira		Conv	
12	R22KB-09998	LD12-459 x R17C-886	Vieira		Conv	
13	R23PR-00036E	R15-2422*4 x CTV-DNR-1006	Vieira		E3	
14	R23PR-00081E	R18-14502*4 x CTV-DNR-1007	Vieira		E3	
15	S22-1294	S17-13455/S16-13165	Feng Lin		Conv	
16	S22-13524	S13-8585/S16-12774	Feng Lin		Conv	
17	S22-15639	10061-236-11 (DS61-236)/S17-1344	Feng Lin		Conv	
18	S22-23421HS	S19-19712/S16-7922	Feng Lin		Conv	
19	S22-24339	TX12-1061/S16-8898	Feng Lin		Conv	
20	S22-3114	S16-15170/S17-2243	Feng Lin		Conv	
21	S22-4648	S16-9478/S17-1344	Feng Lin		Conv	
22	S22-5521	SA16-11227/S17-2243	Feng Lin		Conv	
23	S22-7101	TN16-5024/S17-2243	Feng Lin		Conv	
24	S22-8401	S17-17195/S17-2193	Feng Lin		Conv	
25	S22-8718	S16-8189/R11-7999	Feng Lin		Conv	
26	S22PR-347E3	S16-14730/S16-14730E3	Feng Lin		E3	
27	FILLER		FILLER			
28	V20-0185	V14-0108 x V12-3446	Zhang		Conv	
29	V20-0590	R11-328 x V12-4590	Zhang		Conv	
30	V20-0669TW	V13-1687 x R12-2142	Zhang		Conv	
31	V21-0320DI	V13-0156 x V14-0079	Zhang		Conv	
32	V21-0965DI	R13-13997 x R11-7141	Zhang		Conv	
33	V21-2168R2TW	V11-0119 x V12-0045R2	Zhang		RR2	
34	V21-2456R1	V15-2140 x V12-1475	Zhang		RR1	
35	V21-4099	TN13-4303 x V12-3275	Zhang		Conv	
36	V21-5160RDIHO	V14-0815 x V13-0116	Zhang		Conv	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®, RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

**TABLE 52 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST IV-S-LATE 2025**

STRAIN/ VARIETY	SEED YIELD†	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
							Race 2	Race 3	Race 5		
S16-7922	63.7	1	9	0	2.1	29	1.5	.	1.6	R	1
AG45XF3	63.6	2	11	-5	1.3	31	2.0	.	3.4	R	1
AG48XF2	60.5	9	17	-4	1.6	29	2.4	.	3.6	R	1
AG49XF4	62.8	4	10	-3	1.5	31	2.6	.	3.0	R	1
K22-5083	55.3	24	18	-3	1.6	22	1.0	.	1.0	R	1
K22-5529	59.6	12	13	-2	1.8	27	1.0	.	1.2	S	5
K22-5544	51.0	35	22	-2	1.5	26	1.2	.	1.2	SS	3
K22-5558	51.8	33	23	-1	1.6	24	1.0	.	1.0	S	5
K22-6882	52.6	31	19	1	1.5	26	2.6	.	2.4	R	1
K22-6983	61.9	6	11	-1	1.6	26	1.8	.	1.0	R	1
R22KB-00870	58.5	17	18	-5	1.5	27	4.0	.	5.0	R	1
R22KB-09998	59.1	15	17	-5	1.3	28	3.2	.	4.4	R	1
R23PR-00036E	56.3	20	20	-5	1.6	31	3.0	.	4.5	R	1
R23PR-00081E	52.6	32	25	-7	1.7	30	2.8	.	4.0	R	1
S22-1294	59.9	11	15	-3	1.6	37	1.4	.	4.0	R	1
S22-13524	59.1	14	16	-4	2.1	37	2.0	.	4.0	R	1
S22-15639	54.5	26	25	4	1.4	31	1.3	.	3.6	R	1
S22-23421HS	52.8	30	25	2	2.4	39	1.5	.	2.4	R	1
S22-24339	60.6	7	11	0	1.6	27	1.0	.	1.0	S	5
S22-3114	60.5	8	14	3	1.9	34	2.6	.	2.0	R	1
S22-4648	55.4	23	23	1	1.8	37	3.4	.	3.0	R	1
S22-5521	63.4	3	9	2	1.3	30	3.3	.	3.0	MR	2
S22-7101	55.8	22	20	-4	1.7	34	1.0	.	1.0	R	1
S22-8401	59.3	13	15	0	1.9	34	4.3	.	3.4	R	1
S22-8718	60.1	10	17	5	2.0	36	1.8	.	3.0	R	1
S22PR-347E3	56.4	19	21	-4	1.3	27	3.8	.	3.8	R	1
FILLER	.	.	.	.	.	.	.	.	.	.	.
V20-0185	50.4	36	28	-3	1.5	24	1.4	.	3.6	SS	3
V20-0590	55.8	21	20	-2	1.4	24	1.3	.	2.4	MR	2
V20-0669TW	51.6	34	27	1	1.5	26	2.6	.	3.2	S	5
V21-0320DI	58.5	16	15	-2	1.6	23	3.4	.	3.5	R	1
V21-0965DI	54.8	25	22	1	1.6	25	2.2	.	4.0	R	1
V21-2168R2TW	53.1	28	25	-4	1.5	26	1.5	.	3.8	R	1
V21-2456R1	58.2	18	20	-2	1.4	25	3.3	.	3.2	R	1
V21-4099	53.0	29	23	-1	1.4	26	3.2	.	2.5	MR	2
V21-5160RDIHO	54.1	27	23	-2	2	23	3.4	.	3.5	S	5
Mean	57.2	.	.	-2	1.6	29	.	.	.	.	.
LSD(0.05)	8.5	.	.	3	0.5	4	.	.	.	.	.
LSD(0.10)	7.2	.	.	.	.	.	.	.	.	.	.
CV(%)	14.1	.	.	207	35.0	15	.	.	.	.	.

†Data not included in the mean due to CV >15%: Knoxville, Marianna, and Orange. Certain trials had damage consistent with Dicamba exposure, which may have resulted in an unfair yield advantage for Dicamba resistant

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

TABLE 53 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST IV-S-LATE 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
S16-7922	1.9	14.1	34.9	19.7	47.3	W		
AG45XF3	2.2	13.9	34.7	19.4	46.8	P	LT	Tn
AG48XF2	2.0	15.5	35.3	19.1	47.5	P	T	Br
AG49XF4	2.5	14.2	35.4	19.3	47.7	P	T	Tn
K22-5083	2.2	13.5	34.8	19.3	46.8			
K22-5529	2.1	13.2	35.3	19.0	47.3			
K22-5544	2.1	13.2	36.0	19.0	48.3			
K22-5558	2.3	13.5	35.3	19.5	47.6			
K22-6882	2.3	12.6	35.9	18.7	48.0			
K22-6983	2.0	12.3	35.8	18.4	47.6			
R22KB-00870	2.6	13.0	35.5	18.3	47.3	P	G	T
R22KB-09998	2.6	13.1	34.6	19.7	46.8	W	LT	T
R23PR-00036E	2.6	13.0	35.7	18.6	47.6	P	G	T
R23PR-00081E	2.4	13.2	36.2	18.2	48.1	P	G	T
S22-1294	2.2	14.2	36.0	18.3	47.9	W	F	T
S22-13524	2.3	13.5	36.0	18.5	48.0	P	G	T
S22-15639	2.0	12.7	35.8	18.0	47.4	W	T	Br
S22-23421HS	2.1	14.0	35.8	18.7	47.8	W	T	Br
S22-24339	2.0	13.2	35.7	19.3	48.0	W	T	Br
S22-3114	2.2	14.6	34.8	19.1	46.8	W	T	Br
S22-4648	2.4	14.8	34.8	19.8	47.2	W	T	Br
S22-5521	2.3	12.6	34.8	19.0	46.7	W	T	T
S22-7101	2.6	14.8	34.3	18.7	45.9	P	T	Br
S22-8401	2.3	14.5	34.7	18.9	46.6	W	T	Br
S22-8718	2.0	15.7	35.9	19.1	48.2	P	G	T
S22PR-347E3	2.9	13.6	35.9	18.5	47.9	P	Lt	T
FILLER	.	.	.	.	.			
V20-0185	2.4	12.3	36.0	18.5	48.0	M	T	
V20-0590	1.9	13.7	36.5	18.7	48.7	P	Lt	
V20-0669TW	2.0	12.8	36.1	18.7	48.3	P	T	
V21-0320DI	2.0	13.9	35.8	18.5	47.8	W	Lt	
V21-0965DI	2.2	14.8	35.4	19.2	47.6	W	T	
V21-2168R2TW	1.9	12.3	36.0	18.9	48.2	W	G	
V21-2456R1	1.8	14.3	36.0	18.5	48.0	P	Lt	
V21-4099	1.7	13.7	36.3	18.3	48.3	P	T	
V21-5160RDIHO	1.9	13.7	35.9	19.4	48.4	P	T	
Mean	2.2	13.7	35.5	18.9	47.6			
LSD(0.05)	0.5	0.9	1.0	0.7	1.2			
LSD(0.10)	.	.	.	.	.			
CV(%)	29.3	7.7	2.7	3.4	2.4			

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

TABLE 54 - SEED YIELD (BUSHEL PER ACRE)
PRELIMINARY GROUP IV-S-LATE 2025 †

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR *	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	80.4	30.2	39.7	68.9	50.1	34.5	52.2	66.0	84.3	63.7
AG45XF3	67.1	34.0	48.1	74.9	54.4	22.4	52.9	66.4	86.6	63.6
AG48XF2	65.1	26.5	33.8	69.8	50.2	42.3	51.9	61.9	88.0	60.5
AG49XF4	76.8	29.9	48.7	71.8	46.3	32.8	54.5	62.3	81.6	62.8
K22-5083	74.3	22.4	38.9	66.3	51.1	40.5	56.7	60.9	51.2	55.3
K22-5529	69.0	31.6	49.4	64.6	43.1	39.8	56.9	63.9	71.9	59.6
K22-5544	73.9	25.5	38.6	59.6	50.9	35.8	54.9	52.3	39.8	51.0
K22-5558	70.5	21.5	27.9	67.9	56.2	40.9	55.1	38.8	54.4	51.8
K22-6882	75.0	25.9	34.5	68.2	46.2	48.4	54.4	54.1	38.2	52.6
K22-6983	86.9	34.3	48.9	55.7	49.9	43.8	57.4	62.6	74.3	61.9
R22KB-00870	78.2	28.1	39.4	67.0	51.9	47.8	49.4	54.2	74.2	58.5
R22KB-09998	60.1	32.6	28.8	72.0	49.0	39.1	51.7	59.8	78.2	59.1
R23PR-00036E	58.9	38.4	37.8	63.7	47.2	27.0	52.0	50.3	74.5	56.3
R23PR-00081E	58.3	33.9	46.9	57.9	55.8	28.5	47.6	44.8	73.3	52.6
S22-1294	74.6	32.6	36.3	57.5	51.7	22.8	49.9	67.1	77.6	59.9
S22-13524	67.4	18.2	35.4	60.6	54.8	39.2	56.2	74.0	78.6	59.1
S22-15639	60.6	30.2	35.2	55.6	49.3	19.3	48.7	59.3	72.6	54.5
S22-23421HS	61.0	26.3	35.4	49.0	34.0	26.0	53.9	59.3	67.3	52.8
S22-24339	76.7	36.8	49.3	60.7	44.9	26.4	55.8	66.4	67.2	60.6
S22-3114	71.4	35.3	42.7	44.0	51.2	16.7	52.6	73.0	87.1	60.5
S22-4648	67.4	22.6	48.0	53.5	39.8	14.8	53.6	65.1	70.6	55.4
S22-5521	75.7	34.1	50.5	68.4	47.3	23.6	54.0	72.4	75.6	63.4
S22-7101	72.1	25.1	39.2	57.4	54.2	13.7	53.9	64.7	61.3	55.8
S22-8401	67.0	31.7	39.4	61.3	52.1	48.7	55.2	63.1	77.8	59.3
S22-8718	67.8	37.7	45.4	58.6	47.7	22.3	49.2	75.9	71.7	60.1
S22PR-347E3	69.9	23.1	41.5	61.1	53.3	25.5	46.2	69.4	68.7	56.4
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	79.2	14.2	26.9	54.8	44.9	22.9	46.2	52.2	56.2	50.4
V20-0590	73.0	27.4	37.1	58.8	41.1	35.1	52.1	63.6	60.0	55.8
V20-0669TW	70.9	22.0	35.5	47.7	39.5	28.9	50.2	59.7	59.0	51.6
V21-0320DI	68.6	27.6	39.2	60.2	47.9	54.4	55.6	75.1	64.2	58.5
V21-0965DI	69.0	24.1	40.3	65.3	48.9	53.5	54.2	58.3	58.1	54.8
V21-2168R2TW	68.4	25.6	36.4	54.8	54.8	47.2	51.1	65.5	53.1	53.1
V21-2456R1	70.7	24.1	53.5	56.7	40.6	30.2	51.3	63.4	83.2	58.2
V21-4099	80.4	22.8	38.8	58.7	55.1	22.4	52.5	52.6	51.0	53.0
V21-5160RDIHO	75.8	28.4	44.2	56.2	44.7	13.8	49.7	58.0	56.3	54.1
Mean	71.0	28.1	40.7	61.3	48.6	32.5	52.6	61.6	68.2	57.2
LSD(0.05)	7.6	8.0	13.8	8.0	15.8	24.3	2.7	8.8	14.9	8.5
LSD(0.10)	6.3	6.6	11.5	6.6	13.2	20.3	2.3	7.3	12.4	7.2
CV(%)	5.3	14.0	16.7	6.4	15.6	36.9	2.6	7.0	10.7	14.1

† Data not included in the test mean due to CV > 15%: Knoxville, Marianna, and Orange.

*Locations with obvious damage consistent with exposure to the herbicide Dicamba. The Dicamba resistant checks (all the AG lines) may have had a yield advantage.

**TABLE 55 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP IV-S-LATE 2025**

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	10/10	9/26	10/11	10/14	9/15	.	10/16	9/10	9/15	9/30
AG45XF3	-4	-4	-4	-6	-7	.	-4	-2	-9	-5
AG48XF2	-3	-2	-3	-4	-4	.	-7	-2	-5	-4
AG49XF4	1	-2	-4	-3	-8	.	-2	-4	-6	-3
K22-5083	-3	-2	-3	-4	-6	.	-4	-3	-3	-3
K22-5529	-2	0	-4	1	-1	.	-7	-2	-1	-2
K22-5544	-2	-2	-4	0	-1	.	-5	-2	1	-2
K22-5558	-2	4	-3	0	-1	.	-5	-2	-2	-1
K22-6882	2	-2	-1	-1	3	.	-1	4	6	1
K22-6983	2	6	-5	0	-1	.	-6	1	1	-1
R22KB-00870	-5	-6	-4	-5	-9	.	-5	2	-8	-5
R22KB-09998	-4	-4	-3	-6	-7	.	-1	-10	-7	-5
R23PR-00036E	-2	2	-3	-5	-3	.	-11	-19	-2	-5
R23PR-00081E	-4	-2	-5	-6	-8	.	-11	-14	-6	-7
S22-1294	-2	-2	-5	-4	-1	.	-10	-1	-4	-3
S22-13524	-3	-7	-4	-6	-2	.	-7	2	-2	-4
S22-15639	-1	4	-1	-4	5	.	-3	22	7	4
S22-23421HS	0	4	1	3	2	.	0	6	3	2
S22-24339	0	4	-2	2	0	.	-3	-1	0	0
S22-3114	2	6	1	2	1	.	3	6	2	3
S22-4648	-1	4	1	-2	-1	.	3	6	0	1
S22-5521	2	4	2	2	-5	.	3	5	4	2
S22-7101	-2	0	-3	-4	-3	.	-9	-3	-4	-4
S22-8401	-1	4	-1	1	-5	.	1	-1	0	0
S22-8718	2	7	1	4	8	.	2	14	5	5
S22PR-347E3	-4	-4	-4	-6	-6	.	-6	-3	-5	-4
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	-3	-4	-4	-4	-2	.	-1	-5	-5	-3
V20-0590	-1	2	-5	-1	-2	.	-6	-2	0	-2
V20-0669TW	0	4	-2	2	1	.	-3	0	3	1
V21-0320DI	0	-2	-5	-2	0	.	-3	0	0	-2
V21-0965DI	1	0	-4	5	3	.	-3	5	2	1
V21-2168R2TW	-5	-4	-5	0	-1	.	-5	-5	-5	-4
V21-2456R1	-2	2	-5	-4	2	.	-6	-4	-1	-2
V21-4099	-2	0	-5	-2	0	.	-3	-1	0	-1
V21-5160RDIHO	0	0	-4	-2	-1	.	0	-5	-5	-2
Mean	-1	0	-3	-2	-2	.	-3	-1	-2	-2
LSD(0.05)	2	5	2	4	4	.	5	13	3	3
CV(%)	.	1343	.	.	.	.	.	.	.	.

TABLE 56 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	48	22	27	36	30	27	34	18	21	29
AG45XF3	47	27	31	46	26	28	27	21	29	31
AG48XF2	44	24	27	44	25	29	23	20	25	29
AG49XF4	46	26	34	47	29	29	22	23	27	31
K22-5083	33	13	20	37	21	23	22	14	16	22
K22-5529	44	19	26	46	24	26	28	17	18	27
K22-5544	40	16	22	43	24	27	24	14	20	26
K22-5558	35	16	18	41	24	26	25	16	15	24
K22-6882	39	19	20	44	23	28	29	18	17	26
K22-6983	40	17	25	39	23	31	29	18	19	26
R22KB-00870	42	25	23	42	24	29	18	18	25	27
R22KB-09998	40	21	22	44	27	29	22	21	30	28
R23PR-00036E	43	27	25	47	34	27	25	19	31	31
R23PR-00081E	38	29	30	43	33	27	24	19	27	30
S22-1294	52	30	29	51	43	26	28	35	40	37
S22-13524	46	26	30	50	41	30	31	39	38	37
S22-15639	45	29	25	46	29	24	27	23	31	31
S22-23421HS	48	31	32	53	45	26	32	40	43	39
S22-24339	42	17	24	46	26	22	27	18	23	27
S22-3114	45	27	27	44	39	25	26	38	40	34
S22-4648	48	28	30	47	41	24	29	41	44	37
S22-5521	43	27	26	41	29	27	24	24	28	30
S22-7101	53	28	30	49	33	26	34	27	31	34
S22-8401	45	29	29	51	31	30	28	26	39	34
S22-8718	45	30	28	51	40	27	22	39	43	36
S22PR-347E3	40	21	22	42	26	24	18	22	26	27
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	40	14	19	40	26	22	25	17	18	24
V20-0590	38	15	20	42	20	26	26	14	16	24
V20-0669TW	37	17	22	41	22	24	28	22	20	26
V21-0320DI	34	16	17	38	21	25	25	18	15	23
V21-0965DI	35	14	20	43	25	29	28	17	18	25
V21-2168R2TW	41	15	21	45	22	26	28	19	16	26
V21-2456R1	38	16	27	40	22	24	27	18	11	25
V21-4099	44	17	24	43	23	22	27	17	20	26
V21-5160RDIHO	34	15	21	38	20	20	27	16	19	23
Mean	42	22	25	44	28	26	26	22	26	29
LSD(0.05)	7	5	5	4	6	5	4	3	6	4
CV(%)	8	11	10	4	11	10	8	8	12	15

TABLE 57 - PLANT LODGING (1-5)
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	4.0	1.5	3.3	3.0	1.0	1.0	3.0	1.0	1.0	2.1
AG45XF3	2.5	1.0	2.5	1.0	1.0	1.0	1.0	1.0	1.0	1.3
AG48XF2	3.0	1.5	3.0	2.0	1.0	1.0	1.0	1.0	1.0	1.6
AG49XF4	3.0	1.5	2.8	1.5	1.0	1.0	1.0	1.0	1.0	1.5
K22-5083	4.0	1.0	1.8	3.0	1.0	1.0	1.0	1.0	1.0	1.6
K22-5529	4.0	1.0	3.0	3.0	1.0	1.0	1.5	1.0	1.0	1.8
K22-5544	4.0	1.0	1.8	2.0	1.0	1.0	1.0	1.0	1.0	1.5
K22-5558	3.0	1.0	1.5	2.5	1.0	1.0	2.5	1.0	1.0	1.6
K22-6882	3.5	1.0	1.8	2.0	1.0	1.0	1.0	1.0	1.0	1.5
K22-6983	4.0	1.0	1.8	3.0	1.0	1.0	1.0	1.0	1.0	1.6
R22KB-00870	3.0	1.0	2.3	2.5	1.0	1.0	1.0	1.0	1.0	1.5
R22KB-09998	2.5	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3
R23PR-00036E	3.0	1.5	2.0	2.0	1.0	1.0	1.0	1.0	1.5	1.6
R23PR-00081E	4.0	1.0	2.5	1.5	1.0	1.0	2.5	1.0	1.0	1.7
S22-1294	2.5	1.0	2.0	1.0	1.5	1.0	1.0	2.0	2.0	1.6
S22-13524	3.0	1.5	2.3	3.5	1.5	1.0	1.0	2.5	3.0	2.1
S22-15639	2.0	1.0	2.0	1.0	2.0	1.0	1.0	1.0	2.0	1.4
S22-23421HS	3.5	1.5	3.0	2.5	2.5	1.0	1.0	3.0	4.0	2.4
S22-24339	3.5	1.0	2.5	2.0	1.0	1.0	1.0	1.0	1.0	1.6
S22-3114	3.0	1.5	2.8	1.0	2.0	1.0	1.0	2.5	2.0	1.9
S22-4648	2.0	1.0	3.0	1.0	2.0	1.0	1.0	3.0	2.0	1.8
S22-5521	2.0	1.0	2.5	1.5	1.0	1.0	1.0	1.0	1.0	1.3
S22-7101	3.0	1.0	2.5	2.0	1.0	1.0	2.5	1.0	1.0	1.7
S22-8401	4.0	1.0	2.8	2.0	1.0	1.0	1.0	2.0	2.5	1.9
S22-8718	3.5	1.0	2.3	1.0	2.5	1.0	1.0	2.5	3.5	2.0
S22PR-347E3	2.0	1.0	2.3	1.0	1.0	1.0	1.0	1.0	1.0	1.3
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	3.0	1.0	1.8	3.0	1.0	1.0	1.0	1.0	1.0	1.5
V20-0590	3.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.0	1.4
V20-0669TW	3.0	1.0	2.0	2.5	1.0	1.0	1.0	1.0	1.0	1.5
V21-0320DI	4.0	1.0	2.0	2.5	1.0	1.0	1.0	1.0	1.0	1.6
V21-0965DI	4.0	1.0	2.3	2.5	1.0	1.0	1.0	1.0	1.0	1.6
V21-2168R2TW	3.0	1.0	2.3	2.0	1.0	1.0	1.0	1.0	1.0	1.5
V21-2456R1	3.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.4
V21-4099	3.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.4
V21-5160RDIHO	3.5	1.0	2.3	2.5	1.0	1.0	1.0	1.0	1.0	1.6
Mean	3.2	1	2.3	2.0	1.2	1.0	1.2	1	1.4	1.6
LSD(0.05)	1.0	0.6	0.5	1.0	0.5	.	1.3	0.4	0.4	0.5
CV(%)	16.1	28.7	9.8	23.9	19.9	.	52.2	15.8	14.8	35.0

TABLE 58 - SEED QUALITY (1-5)
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	2.0	2.0	1.8	1	3.5	1.0	2.0	.	1.5	1.9
AG45XF3	3.0	2.0	1.8	2	3.0	1.5	2.0	.	2.5	2.2
AG48XF2	2.5	1.5	2.0	2	2.0	1.5	1.0	.	3.0	2.0
AG49XF4	3.0	2.0	2.0	2	4.5	1.5	2.0	.	3.0	2.5
K22-5083	2.0	2.0	1.8	2	3.0	2.0	2.0	.	3.0	2.2
K22-5529	3.0	2.0	1.5	2	2.5	1.0	2.0	.	3.0	2.1
K22-5544	2.0	2.5	1.8	2	3.0	1.5	1.0	.	3.0	2.1
K22-5558	2.0	3.0	2.0	1	3.0	1.5	2.0	.	3.5	2.3
K22-6882	3.0	2.0	1.5	2	3.5	1.0	2.0	.	3.5	2.3
K22-6983	2.0	1.5	1.5	2	3.5	1.5	2.0	.	2.5	2.0
R22KB-00870	3.0	3.0	2.3	2	3.0	1.0	3.0	.	3.5	2.6
R22KB-09998	2.5	2.5	2.8	2	2.5	1.5	3.0	.	4.0	2.6
R23PR-00036E	3.0	1.5	3.0	3	2.5	3.0	2.0	.	3.0	2.6
R23PR-00081E	3.0	2.0	2.3	2	2.0	2.5	2.0	.	3.5	2.4
S22-1294	2.5	2.0	2.0	2	3.5	1.0	2.0	.	3.0	2.2
S22-13524	2.0	2.0	2.0	2	4.0	1.5	2.0	.	3.0	2.3
S22-15639	3.0	1.5	1.8	2	3.0	1.0	1.0	.	2.5	2.0
S22-23421HS	3.0	2.0	1.8	2	2.5	1.0	2.0	.	2.5	2.1
S22-24339	2.0	2.0	1.8	1	3.5	1.0	1.0	.	3.0	2.0
S22-3114	2.0	2.0	1.5	3	3.0	2.0	1.0	.	3.0	2.2
S22-4648	3.0	2.0	1.8	2	3.0	2.5	2.0	.	3.0	2.4
S22-5521	2.0	2.0	2.3	1	3.5	2.0	2.0	.	3.0	2.3
S22-7101	3.0	3.0	2.3	2	3.0	2.0	2.0	.	3.5	2.6
S22-8401	3.0	3.0	2.3	2	2.5	1.0	1.0	.	3.5	2.3
S22-8718	2.0	1.5	1.5	1	3.5	1.5	2.0	.	3.0	2.0
S22PR-347E3	3.0	2.5	3.3	3	2.5	3.5	3.0	.	3.0	2.9
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	3.0	3.0	1.5	2	3.5	1.0	2.0	.	3.0	2.4
V20-0590	2.0	1.5	1.5	1	3.5	1.0	2.0	.	2.5	1.9
V20-0669TW	2.0	2.0	1.5	2	3.5	2.0	2.0	.	1.0	2.0
V21-0320DI	3.0	2.0	1.5	2	2.5	1.0	1.0	.	2.5	2.0
V21-0965DI	2.0	2.0	1.5	2	4.0	1.0	2.0	.	3.0	2.2
V21-2168R2TW	2.0	2.0	1.8	2	2.5	1.0	2.0	.	2.5	1.9
V21-2456R1	1.0	2.0	1.3	2	3.0	1.5	2.0	.	2.0	1.8
V21-4099	2.0	2.0	2.0	1	2.0	1.0	1.0	.	2.0	1.7
V21-5160RDIHO	2.0	2.0	1.8	2.0	2.5	1.5	2.0	.	2.0	1.9
Mean	3	2.1	2	2	3.0	1.5	1.9	.	2.8	2.2
LSD(0.05)	0	1.2	0.6	.	2.1	1.3	.	.	1.1	0.5
CV(%)	8.3	28.1	15.2	.	34.4	41.3	.	.	19.8	29.3

TABLE 59 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	15.6	10.0	15.6	16	13.2	12.2	15.8	.	14.5	14.1
AG45XF3	16.0	10.3	14.8	16	12.3	13.6	16.4	.	12.2	13.9
AG48XF2	16.6	12.5	17.2	19	11.6	15.1	18.9	.	14.4	15.5
AG49XF4	16.0	10.9	14.4	16	13.5	13.2	16.7	.	13.1	14.2
K22-5083	15.8	11.5	12.8	15	13.2	11.4	15.0	.	13.0	13.5
K22-5529	15.1	9.8	13.3	14	11.0	12.3	15.1	.	14.6	13.2
K22-5544	14.9	10.6	12.8	15	12.5	12.0	15.0	.	12.9	13.2
K22-5558	15.4	10.7	13.2	15	11.8	12.3	15.4	.	14.5	13.5
K22-6882	14.8	9.3	12.1	13	12.4	11.2	15.3	.	12.4	12.6
K22-6983	14.4	8.9	11.7	13	12.0	11.0	12.9	.	13.5	12.3
R22KB-00870	14.9	9.3	13.9	14	12.3	12.7	16.6	.	10.9	13.0
R22KB-09998	13.5	9.9	11.5	16	12.3	13.4	16.8	.	12.8	13.1
R23PR-00036E	14.5	11.1	13.2	14	11.6	12.0	15.2	.	12.0	13.0
R23PR-00081E	14.1	10.7	13.2	14	12.2	12.2	15.8	.	13.1	13.2
S22-1294	17.3	11.6	15.4	16	10.5	12.8	17.1	.	13.8	14.2
S22-13524	14.9	10.2	13.2	15	12.8	12.2	15.5	.	14.2	13.5
S22-15639	13.4	10.0	12.4	15	12.1	11.9	14.9	.	12.1	12.7
S22-23421HS	14.9	10.4	14.8	17	12.4	12.3	15.3	.	15.3	14.0
S22-24339	15.2	10.5	13.0	14	12.1	11.3	14.4	.	14.5	13.2
S22-3114	16.2	11.7	14.2	17	14.2	12.6	16.4	.	14.3	14.6
S22-4648	16.8	11.1	16.4	17	11.0	13.9	18.5	.	14.7	14.8
S22-5521	14.0	9.3	12.8	14	12.1	11.1	15.6	.	12.1	12.6
S22-7101	17.6	12.0	14.1	17	12.9	14.2	16.5	.	13.9	14.8
S22-8401	17.0	10.5	13.8	18	12.6	13.2	16.2	.	15.5	14.5
S22-8718	17.7	13.3	16.3	19	11.8	14.0	18.6	.	15.5	15.7
S22PR-347E3	15.2	10.9	13.9	15	12.5	13.9	15.5	.	12.2	13.6
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	13.9	9.5	11.3	14	12.3	11.4	14.5	.	12.2	12.3
V20-0590	15.4	11.4	12.9	15	14.0	13.1	13.6	.	13.9	13.7
V20-0669TW	14.2	9.8	12.5	14	13.5	12.0	14.1	.	12.2	12.8
V21-0320DI	16.6	10.4	12.7	15	12.3	12.0	15.6	.	17.1	13.9
V21-0965DI	16.6	12.2	14.8	17	14.5	13.7	16.1	.	13.6	14.8
V21-2168R2TW	13.9	10.5	11.5	13	11.3	11.2	13.7	.	13.0	12.3
V21-2456R1	16.6	11.1	14.6	16	12.3	13.2	16.0	.	14.6	14.3
V21-4099	16.9	10.6	13.2	15	13.6	11.7	14.3	.	14.3	13.7
V21-5160RDIHO	16.0	11.4	14.2	14.0	12.0	12.1	15.2	.	14.3	13.7
Mean	16	10.7	14	15	12.4	12.5	15.7	.	13.6	13.7
LSD(0.05)	1	1.6	2.0	.	2.6	1.7	.	.	1.2	0.9
CV(%)	3.2	7.3	7.0	.	10.3	6.8	.	.	4.3	7.7

TABLE 60 - OIL (%)†
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	19.0	.	20.1	18.5	20.5	.	19.7	20.3	19.7	19.7
AG45XF3	18.4	.	20.0	18.6	18.9	.	19.9	20.1	19.7	19.4
AG48XF2	17.7	.	20.0	18.9	18.7	.	20.2	19.4	19.1	19.1
AG49XF4	17.9	.	20.5	19.0	18.9	.	19.7	19.6	19.5	19.3
K22-5083	18.2	.	20.0	18.3	19.4	.	19.5	19.9	19.5	19.3
K22-5529	18.5	.	19.4	18.5	18.9	.	20.0	18.7	19.1	19.0
K22-5544	17.8	.	19.7	18.7	18.0	.	20.4	19.3	19.2	19.0
K22-5558	18.3	.	20.2	19.4	18.7	.	20.4	19.9	19.7	19.5
K22-6882	18.3	.	20.1	18.4	18.0	.	19.2	18.6	18.3	18.7
K22-6983	16.5	.	19.0	18.2	18.4	.	19.4	18.9	18.5	18.4
R22KB-00870	16.6	.	18.7	17.8	18.2	.	19.0	18.6	19.1	18.3
R22KB-09998	19.4	.	18.8	19.6	18.5	.	19.9	20.8	20.8	19.7
R23PR-00036E	17.1	.	21.2	17.6	18.9	.	18.7	18.8	18.0	18.6
R23PR-00081E	17.1	.	18.2	17.4	18.5	.	18.6	18.7	18.8	18.2
S22-1294	17.3	.	18.0	17.2	18.8	.	18.8	19.4	18.9	18.3
S22-13524	17.6	.	18.6	17.8	18.4	.	19.1	19.6	18.7	18.5
S22-15639	16.7	.	19.2	17.4	19.4	.	18.5	17.7	16.9	18.0
S22-23421HS	18.2	.	18.2	17.9	18.9	.	19.5	20.1	18.2	18.7
S22-24339	18.5	.	19.8	18.4	18.7	.	19.4	20.6	19.4	19.3
S22-3114	18.5	.	19.6	17.8	18.9	.	19.9	19.3	19.4	19.1
S22-4648	19.4	.	22.5	18.6	17.6	.	20.2	20.6	19.8	19.8
S22-5521	18.2	.	19.9	18.3	19.3	.	17.7	20.5	19.3	19.0
S22-7101	17.4	.	19.7	17.0	18.9	.	19.2	19.8	19.1	18.7
S22-8401	18.1	.	18.9	18.3	18.3	.	19.5	20.1	19.2	18.9
S22-8718	18.6	.	19.9	18.8	19.1	.	20.2	18.8	18.4	19.1
S22PR-347E3	18.4	.	19.5	17.4	18.4	.	19.6	18.6	17.8	18.5
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	17.0	.	20.5	17.6	19.8	.	18.9	17.9	17.9	18.5
V20-0590	16.6	.	18.9	18.0	20.0	.	19.8	19.1	18.4	18.7
V20-0669TW	17.7	.	18.8	17.7	20.1	.	19.6	18.2	18.5	18.7
V21-0320DI	17.6	.	18.4	18.5	18.9	.	19.2	19.0	18.0	18.5
V21-0965DI	19.0	.	19.0	18.8	19.0	.	20.1	20.3	18.6	19.2
V21-2168R2TW	17.9	.	19.8	17.8	19.4	.	18.9	19.5	19.1	18.9
V21-2456R1	18.0	.	18.6	18.0	17.3	.	19.3	19.6	18.9	18.5
V21-4099	17.9	.	19.0	18.4	18.4	.	19.0	18.3	17.3	18.3
V21-5160RDIHO	19.4	.	18.9	19.5	18.5	.	20.0	19.8	19.9	19.4
Mean	18.0	.	19.5	18.2	18.8	.	19.5	19.4	18.9	18.9
LSD(0.05)	.	.	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	.	.	3.4

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

TABLE 61 - PROTEIN (%)†
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	35.9	.	36.0	34.7	33.9	.	34.4	33.9	35.8	34.9
AG45XF3	35.9	.	34.3	33.2	37.0	.	34.1	33.7	34.8	34.7
AG48XF2	37.0	.	33.9	34.0	37.2	.	33.3	36.2	35.7	35.3
AG49XF4	37.4	.	33.9	33.2	40.2	.	33.9	34.5	35.0	35.4
K22-5083	36.4	.	34.3	34.4	35.2	.	33.5	34.6	35.2	34.8
K22-5529	35.4	.	34.5	34.1	37.3	.	33.1	36.4	35.9	35.3
K22-5544	37.2	.	34.4	34.9	38.7	.	33.4	36.5	36.8	36.0
K22-5558	37.4	.	33.9	33.9	36.8	.	33.3	36.0	35.7	35.3
K22-6882	35.9	.	34.9	34.1	37.1	.	34.4	37.4	37.4	35.9
K22-6983	38.1	.	35.6	34.1	38.5	.	33.6	35.0	35.5	35.8
R22KB-00870	38.0	.	34.3	33.9	37.8	.	33.5	36.3	35.1	35.5
R22KB-09998	35.5	.	35.3	31.0	37.6	.	33.5	34.0	35.2	34.6
R23PR-00036E	37.4	.	33.1	35.3	37.4	.	34.5	35.0	37.1	35.7
R23PR-00081E	38.0	.	36.3	35.6	36.7	.	35.8	35.6	35.7	36.2
S22-1294	37.7	.	35.7	36.1	35.1	.	35.0	35.3	37.1	36.0
S22-13524	36.8	.	35.8	34.8	38.1	.	34.9	34.8	36.8	36.0
S22-15639	37.7	.	35.1	35.5	36.2	.	34.1	35.6	36.2	35.8
S22-23421HS	37.0	.	34.8	36.0	35.9	.	33.7	34.9	38.0	35.8
S22-24339	36.7	.	34.5	34.9	37.1	.	34.9	34.9	36.9	35.7
S22-3114	35.5	.	34.4	35.3	37.5	.	33.5	32.8	34.8	34.8
S22-4648	34.9	.	33.9	34.4	37.8	.	32.9	33.9	35.9	34.8
S22-5521	36.0	.	33.6	33.7	37.8	.	34.4	33.4	34.8	34.8
S22-7101	35.0	.	34.1	33.5	38.3	.	31.0	33.9	34.3	34.3
S22-8401	36.3	.	33.6	33.6	37.3	.	32.9	33.5	36.0	34.7
S22-8718	36.6	.	33.2	35.9	36.3	.	34.9	36.7	37.7	35.9
S22PR-347E3	36.4	.	36.2	35.5	37.9	.	33.1	35.9	36.6	35.9
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	37.7	.	33.1	34.7	37.8	.	34.2	37.1	37.1	36.0
V20-0590	38.9	.	35.2	35.0	38.3	.	34.6	35.9	37.3	36.5
V20-0669TW	37.4	.	35.7	35.2	38.4	.	34.2	36.5	35.6	36.1
V21-0320DI	37.2	.	35.5	33.5	37.7	.	33.8	35.6	37.3	35.8
V21-0965DI	36.5	.	34.8	34.7	36.6	.	34.3	34.2	36.4	35.4
V21-2168R2TW	37.3	.	34.6	35.8	35.2	.	34.8	36.8	37.5	36.0
V21-2456R1	36.9	.	36.5	34.9	38.5	.	34.9	35.3	35.1	36.0
V21-4099	36.7	.	34.7	33.9	37.5	.	34.4	37.8	38.9	36.3
V21-5160RDIHO	34.8	.	36.3	35.1	37.1	.	34.7	36.3	36.8	35.9
Mean	36.7	.	34.8	34.5	37.3	.	33.9	35.3	36.2	35.5
LSD(0.05)	.	.	.	.	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	.	.	.	.	2.7

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

TABLE 62 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP IV-S-LATE 2025

STRAIN/ VARIETY	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR	Orange, VA	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Test Mean
S16-7922	48.2	.	49.0	46.2	46.3	.	46.6	46.3	48.5	47.3
AG45XF3	47.8	.	46.6	44.3	49.6	.	46.3	45.8	47.1	46.8
AG48XF2	48.9	.	46.1	45.5	49.7	.	45.3	48.8	48.0	47.5
AG49XF4	49.5	.	46.3	44.5	53.9	.	45.9	46.6	47.3	47.7
K22-5083	48.4	.	46.6	45.7	47.5	.	45.2	46.9	47.5	46.8
K22-5529	47.2	.	46.5	45.5	50.0	.	44.9	48.7	48.2	47.3
K22-5544	49.2	.	46.6	46.7	51.3	.	45.5	49.1	49.5	48.3
K22-5558	49.8	.	46.2	45.7	49.2	.	45.5	48.8	48.3	47.6
K22-6882	47.8	.	47.5	45.4	49.2	.	46.2	50.0	49.8	48.0
K22-6983	49.6	.	47.8	45.3	51.3	.	45.3	47.0	47.3	47.6
R22KB-00870	49.5	.	45.9	44.8	50.2	.	44.9	48.5	47.2	47.3
R22KB-09998	47.9	.	47.3	41.9	50.1	.	45.5	46.7	48.3	46.8
R23PR-00036E	49.0	.	45.7	46.5	50.1	.	46.1	46.8	49.2	47.6
R23PR-00081E	49.8	.	48.2	46.9	48.9	.	47.8	47.5	47.8	48.1
S22-1294	49.6	.	47.3	47.4	47.0	.	46.8	47.6	49.7	47.9
S22-13524	48.5	.	47.8	46.0	50.8	.	46.9	47.0	49.2	48.0
S22-15639	49.2	.	47.2	46.7	48.8	.	45.5	47.0	47.3	47.4
S22-23421HS	49.2	.	46.2	47.7	48.1	.	45.5	47.5	50.5	47.8
S22-24339	48.9	.	46.8	46.5	49.6	.	47.1	47.7	49.8	48.0
S22-3114	47.3	.	46.5	46.7	50.3	.	45.5	44.1	46.9	46.8
S22-4648	47.1	.	47.5	45.9	49.9	.	44.8	46.4	48.7	47.2
S22-5521	47.8	.	45.6	44.8	50.9	.	45.5	45.7	46.9	46.7
S22-7101	46.1	.	46.2	43.9	51.3	.	41.7	46.0	46.1	45.9
S22-8401	48.2	.	45.0	44.7	49.6	.	44.4	45.6	48.4	46.6
S22-8718	48.9	.	45.1	48.1	48.8	.	47.5	49.1	50.2	48.2
S22PR-347E3	48.5	.	48.9	46.7	50.5	.	44.7	47.9	48.4	47.9
FILLER	.	.	.	.	.	.	.	.	.	.
V20-0185	49.4	.	45.3	45.8	51.2	.	45.9	49.1	49.1	48.0
V20-0590	50.7	.	47.2	46.5	52.0	.	47.0	48.2	49.7	48.7
V20-0669TW	49.4	.	47.8	46.4	52.2	.	46.2	48.5	47.5	48.3
V21-0320DI	49.1	.	47.3	44.7	50.5	.	45.5	47.8	49.4	47.8
V21-0965DI	49.0	.	46.7	46.5	49.1	.	46.6	46.6	48.6	47.6
V21-2168R2TW	49.4	.	46.9	47.3	47.5	.	46.6	49.7	50.4	48.2
V21-2456R1	48.9	.	48.7	46.3	50.6	.	46.9	47.7	47.0	48.0
V21-4099	48.6	.	46.6	45.2	50.0	.	46.2	50.2	51.1	48.3
V21-5160RDIHO	46.9	.	48.7	47.4	49.5	.	47.1	49.1	49.9	48.4
Mean	48.6	.	46.9	45.8	49.9	.	45.8	47.6	48.5	47.6
LSD(0.05)	.	.	.	.	.	.	.	.	.	1.2
CV(%)	.	.	.	.	.	.	.	.	.	2.4

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 63 - PARENTAGE OF ENTRIES
UNIFORM GROUP V 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	S16-14869	Commercial check	check		Conv	
2	AG53XF2	Commercial check	check		XF	
3	AG54XF0	Commercial check	check		XF	
4	AG56XF2	Commercial check	check		XF	
5	TN21-4659	Commercial check	check			
6	TN11-5140	Commercial check	check		Conv	
7	DA1702-0214F	DA10x05-17F x DA09x12-07F	Gillen		Conv	Diversity (25% PI 340023)
8	DS1520-45	[DS-880]2 x L62-1251] x CM422	Rusty Smith	F7	Conv	Dt2, Rpp4, Rps1k, 9% exotic
9	DS1522	[DS-880]2 x L62-1251] x UA5612	Rusty Smith	F7	Conv	Dt2, SCN, 9% exotic
10	K20-3474	K13-1845 / PI 661090	Schapaugh		Conv	
11	K20-6712	K12-1355 / K13-1830	Schapaugh		Conv	
12	N19-0004	G00-3213 x N11-9298	Mian		Conv	High oil, high meal protein
13	N19-0042	G00-3213 x R13-7797	Mian		Conv	High meal protein
14	N19-0573	N06-06-1 x R11-8346	Mian		Conv	High meal protein
15	N19-1095	N06-06 x R11-8346	Mian		Conv	High meal protein
16	N19-1097	N06-06 x R11-8346	Mian		Conv	High protein
17	R19-4593	Ellis x UA 5612	Vieira		Conv	
18	R19-45980	Ellis x UA 5612	Vieira		Conv	SRKN
19	R21KB-05522	R16-141 x R13-13997	Vieira		Conv	SRKN, Flood tolerance
20	V16-1706R2	04-05-N41 X RR2Y	Zhang		RR2	
21	V18-0120	S09-13185 x V08-1924	Zhang		Conv	
22	V18-1255	Md 99-6226 x R11-8346	Zhang		Conv	
23	V19-0519HP	S11-17025 x Osage	Zhang		Conv	
24	V19-1409RR	Ellis x V11-3392	Zhang		RR1	
25	V20-0009C	V10-0262 x R11-328	Zhang		Conv	
26	V20-0020CY	V10-0262 x R11-328	Zhang		Conv	
27	V20-1309R2	V13-0156 x V12-0045R2	Zhang		RR2	

† Conv= Conventional(non-transgenic),DIC - Dicamba resistance Xtend®, E3= Enlist E3®, LL=Liberty Link®, RR1=Roundup Ready®, RR2=Roundup Ready 2 Yield®,

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, SRKN= southern root knot nematode, and STS= sulfonylurea tolerant

**TABLE 64 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST V 2025**

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD†			PROTEIN‡			OIL‡		
			2025	24-24	23-25	2025	24-25	23-25	2025	24-25	23-25
S16-14869	1	7	67.1	59.2	59.4	34.2	34.0	34.2	19.5	20.3	20.0
AG53XF2	6	11	63.0	58.1	59.8	33.9	33.8	33.6	19.6	20.4	20.2
AG54XF0	14	13	60.0	57.1	.	35.4	35.3	.	19.0	19.7	.
AG56XF2	5	11	63.1	59.1	59.9	35.1	34.8	34.8	18.7	19.4	19.2
TN21-4659	24	16	56.5	53.4	.	34.5	34.4	.	19.1	19.8	.
TN11-5140	20	16	57.7	54.0	56.3	35.5	35.3	35.2	19.1	19.9	19.8
DA1702-0214F	10	14	61.0	.	.	35.9	.	.	18.5	.	.
DS1520-45	26	21	54.0	.	.	35.7	.	.	20.3	.	.
DS1522	21	17	57.3	.	.	35.9	.	.	18.6	.	.
K20-3474	16	13	59.7	.	.	35.8	.	.	18.4	.	.
K20-6712	22	16	57.2	.	.	35.9	.	.	18.0	.	.
N19-0004	27	23	50.4	.	.	35.4	.	.	20.2	.	.
N19-0042	13	14	60.4	.	.	37.7	.	.	18.6	.	.
N19-0573	7	12	62.0	.	.	36.9	.	.	19.0	.	.
N19-1095	8	12	61.7	57.0	57.4	37.0	36.5	36.6	18.9	19.8	19.5
N19-1097	15	15	60.0	55.7	56.0	37.1	37.1	37.2	18.5	19.5	19.3
R19-4593	12	14	60.5	58.2	.	35.2	34.7	.	18.9	19.8	.
R19-45980	18	13	59.7	56.1	.	35.7	35.4	.	18.6	19.5	.
R21KB-05522	11	15	60.5	.	.	34.5	.	.	19.9	.	.
V16-1706R2	2	7	65.0	59.1	60.1	34.8	34.5	34.6	18.7	19.6	19.4
V18-0120	19	15	58.8	56.5	.	36.3	36.4	.	19.2	19.9	.
V18-1255	4	9	64.6	59.0	59.7	35.8	35.7	35.7	19.1	19.8	19.6
V19-0519HP	17	14	59.7	.	.	39.0	.	.	17.8	.	.
V19-1409RR	9	12	61.4	57.2	58.7	33.8	33.5	33.6	19.1	19.9	19.7
V20-0009C	3	9	64.9	.	.	36.9	.	.	18.1	.	.
V20-0020CY	25	18	56.4	.	.	36.6	.	.	19.5	.	.
V20-1309R2	23	18	57.0	.	.	36.3	.	.	17.7	.	.
Mean	.	.	60.0	.	.	35.8	.	.	18.9	.	.
LSD(0.05)	.	.	5.7	.	.	0.8	.	.	0.5	.	.
LSD(0.10)	.	.	4.8	.	.	.	.	.	.	.	.
CV(%)	.	.	13.0	.	.	2.5	.	.	2.7	.	.

† Data not included in yield mean: 2023 Bossier City, Knoxville, Orange, Portageville (A) and Stoneville; 2024 Jackson, Knoxville, Orange, Plymouth, Springfield, Starkville and Warsaw; 2025 Belle Mina, Jackson and Springfield. Certain trials had damage consistent with Dicamba exposure, which may have resulted in an unfair yield advantage for Dicamba resistant check lines.

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

TABLE 65 - GENERAL SUMMARY OF PERFORMANCE -Part 2
UNIFORM TEST V 2025

STRAIN/ VARIETY	MEAL† PRO %	MAT INDEX	LOD	HT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
S16-14869	46.2	0	2.4	31	1.8	14.5	W		
AG53XF2	45.9	0	1.6	34	2.4	15.5	P	Lt	Tn
AG54XF0	47.4	7	1.6	35	1.9	14.8	P	Lt	Tn
AG56XF2	46.8	2	1.6	30	1.9	15.1	W	Tw	Tn
TN21-4659	46.3	0	1.6	28	1.5	12.7	P	T	
TN11-5140	47.6	8	1.7	30	1.8	13.6	W		
DA1702-0214F	47.9	1	2.2	29	1.9	14.8	P	T	T
DS1520-45	48.7	0	2.4	35	1.8	18.0	P	Tw	Tn
DS1522	47.9	-3	2.3	36	1.9	12.9	P	Tw	Br
K20-3474	47.6	1	1.5	24	1.8	13.4			
K20-6712	47.6	0	1.5	24	1.8	13.6			
N19-0004	48.2	6	1.7	30	1.8	15.4	W	T	
N19-0042	50.3	4	1.7	28	1.8	14.0	W	T	
N19-0573	49.6	3	1.5	29	1.5	12.6	P	T	
N19-1095	49.5	7	1.7	29	1.6	13.4	P	T	
N19-1097	49.5	4	1.8	32	2.1	14.8	P	T	
R19-4593	47.2	1	1.7	27	1.6	12.5	W	G	T
R19-45980	47.7	1	2.0	31	1.8	12.7	W	G	T
R21KB-05522	46.8	1	2.0	32	1.8	14.3	P	T	T
V16-1706R2	46.5	2	1.5	30	1.7	15.2	W	T	
V18-0120	48.9	4	1.7	29	1.8	15.7	W	T	
V18-1255	48.2	2	1.5	27	1.9	14.2	P	T	
V19-0519HP	51.4	4	1.5	28	2.2	14.4	W	T	
V19-1409RR	45.5	1	1.5	30	1.7	13.2	W	T	
V20-0009C	48.9	1	1.7	31	2.0	14.2	P	T	
V20-0020CY	49.5	0	1.6	33	2.1	16.1	W	G	
V20-1309R2	47.5	-2	1.6	27	1.8	15.9	P	LT	
Mean	48.0	2	1.7	30	1.8	14.4			
LSD(0.05)	1.0	2	0.3	2	0.4	0.8			
CV(%)	2.2	148	32.0	12	30.0	7.6			

† Estimated meal protein content was added to the annual report in 2018.

**TABLE 66 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST V 2025**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			RKN Gall Score (1-5 Scale)‡			SC	SC
	Race 2	Race 3	Race 5	PRK	SRK	JRK	RATING	SCORE
S16-14869	3.2	.	3.4	2.3	2.0	1.8	R	1
AG53XF2	4.8	.	2.8	5.0	4.8	4.8	R	1
AG54XF0	4.4	.	4.0	4.5	2.8	4.3	R	1
AG56XF2	2.5	.	1.6	2.8	2.3	2.8	R	1
TN21-4659	1.0	.	2.2	3.8	5.0	3.8	MR	2
TN11-5140	.	.	5.0	3.3	1.3	4.8	.	.
DA1702-0214F	4.3	.	5.0	5.0	5.0	5.0	R	1
DS1520-45	4.2	.	3.4	3.5	5.0	3.3	R	1
DS1522	1.0	.	1.0	4.0	5.0	4.8	R	1
K20-3474	1.0	.	1.0	4.5	2.0	4.5	MR	2
K20-6712	1.0	.	1.0	4.3	3.5	2.8	MS	4
N19-0004	3.5	.	3.4	3.0	1.8	3.0	S	5
N19-0042	4.8	.	4.2	4.8	1.5	4.8	R	1
N19-0573	4.3	.	4.4	5.0	3.3	5.0	MS	4
N19-1095	3.3	.	3.6	4.8	1.5	3.5	MS	4
N19-1097	3.5	.	4.5	4.5	1.3	4.8	R	1
R19-4593	4.5	.	3.5	4.3	5.0	3.5	MS	4
R19-45980	4.0	.	3.2	3.8	3.5	3.0	MS	4
R21KB-05522	4.0	.	4.0	3.8	3.3	4.0	MR	2
V16-1706R2	3.8	.	2.2	2.3	1.5	3.8	R	1
V18-0120	4.0	.	1.6	4.8	3.3	5.0	MS	4
V18-1255	4.0	.	2.8	5.0	2.5	5.0	R	1
V19-0519HP	4.8	.	2.6	5.0	1.5	5.0	R	1
V19-1409RR	3.0	.	3.0	3.0	1.3	4.0	R	1
V20-0009C	4.6	.	2.4	5.0	4.3	5.0	R	1
V20-0020CY	4.0	.	3.0	2.8	4.7	3.5	R	1
V20-1309R2	4.5	.	4.2	4.5	3.5	5.0	R	1

†The race 2 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines)

Type 1.2.5.7 and HG Type 2.5.7, respectively. Results for race 3 were omitted.

‡The root-knot nematode (RKN) species used in these tests were Meloidogyne incognita (southern root knot = SRK), M. arenaria (peanut root knot = PRK), and M. javanica (Javanese root-knot = JRK) MR = mixed reaction.

TABLE 67 - SEED YIELD (BUSHEL PER ACRE)
UNIFORM TEST V 2025 †

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR *
S16-14869	20.6	82.0	82.0	39.9	36.3	64.6	62.8
AG53XF2	27.5	61.0	77.2	43.9	37.4	64.7	57.0
AG54XF0	29.3	69.9	54.2	36.0	42.0	52.9	45.1
AG56XF2	21.3	69.6	67.9	36.5	32.1	49.2	62.1
TN21-4659	25.2	63.8	66.9	42.1	35.8	59.7	55.1
TN11-5140	27.0	68.4	64.9	38.8	36.2	46.8	47.6
DA1702-0214F	26.1	67.6	70.8	34.6	27.9	55.0	54.6
DS1520-45	24.8	64.0	59.7	36.8	33.2	38.6	45.4
DS1522	27.4	66.1	68.0	33.9	29.4	58.7	60.4
K20-3474	27.6	57.8	79.7	30.8	34.0	53.3	63.5
K20-6712	27.8	60.7	70.8	42.5	32.2	50.0	63.9
N19-0004	27.6	44.5	65.6	35.9	31.4	43.4	44.3
N19-0042	27.6	53.9	73.0	40.0	35.4	53.7	52.3
N19-0573	25.1	60.3	76.6	39.9	33.4	53.6	58.1
N19-1095	26.7	63.9	61.8	39.3	36.8	42.6	61.4
N19-1097	29.7	70.1	68.5	34.4	35.5	44.3	51.4
R19-4593	25.1	59.3	80.1	34.3	27.9	49.9	62.4
R19-45980	29.5	66.1	79.6	18.9	33.9	46.8	55.6
R21KB-05522	26.7	67.5	70.5	45.5	35.9	46.9	59.7
V16-1706R2	28.5	77.1	76.1	24.9	37.0	53.3	62.4
V18-0120	24.9	60.8	74.5	30.8	33.8	49.0	54.6
V18-1255	26.4	63.7	79.5	41.4	32.1	60.5	61.8
V19-0519HP	28.6	52.0	73.5	50.3	34.5	52.0	57.3
V19-1409RR	27.4	47.8	76.5	38.3	28.6	51.6	63.8
V20-0009C	25.9	64.7	81.6	40.3	32.0	50.9	59.0
V20-0020CY	25.6	61.0	71.4	26.3	30.8	51.0	50.4
V20-1309R2	25.7	54.7	72.1	25.4	27.9		55.3
Mean	26.5	62.9	72.0	36.4	33.5	51.7	56.6
LSD(0.05)	6.8	14.1	6.6	17.0	4.2	8.7	8.2
LSD(0.10)	5.7	11.8	5.5	14.1	3.5	7.2	6.8
CV(%)	15.7	13.7	5.6	22.7	7.6	10.3	8.4

†Location data not included in Test Mean due to CV > 15% :Belle Mina, Jackson, and Springfield.

*Locations with obvious damage consistent with exposure to the herbicide Dicamba. The Dicamba resistant checks (all the AG lines) may have had a yield advantage.

TABLE 67 - SEED YIELD (BUSHEL PER ACRE) (continued)
UNIFORM TEST V 2025 †

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	56.9	43.8	28.6	83.0	76.1	83.8	67.1
AG53XF2	56.1	45.7	23.6	74.1	71.9	84.7	63.0
AG54XF0	55.5	49.1	26.3	78.7	69.1	82.0	60.0
AG56XF2	57.8	46.7	25.2	85.7	75.0	85.4	63.1
TN21-4659	54.7	47.1	31.2	59.1	39.9	83.2	56.5
TN11-5140	55.5	43.1	32.8	78.9	48.5	87.3	57.7
DA1702-0214F	50.9	46.6	22.3	89.6	60.5	86.9	61.0
DS1520-45	50.5	32.9	18.4	79.6	64.3	71.8	54.0
DS1522	45.6	37.3	30.4	79.7	64.8	63.6	57.3
K20-3474	58.3	46.1	29.0	71.0	49.0	84.5	59.7
K20-6712	57.5	43.6	33.7	62.5	49.1	81.7	57.2
N19-0004	52.6	44.5	21.3	58.0	45.7	73.9	50.4
N19-0042	56.4	41.0	27.2	79.4	72.7	86.4	60.4
N19-0573	54.6	49.6	27.3	77.8	69.2	86.9	62.0
N19-1095	54.4	47.6	24.0	85.9	76.0	86.9	61.7
N19-1097	52.3	39.1	22.3	78.8	68.5	91.3	60.0
R19-4593	56.2	46.8	26.2	83.0	63.1	76.4	60.5
R19-45980	52.0	46.2	32.5	87.7	41.6	87.7	59.7
R21KB-05522	50.5	42.9	25.5	79.1	69.5	82.9	60.5
V16-1706R2	58.3	53.3	27.3	82.8	76.9	73.3	65.0
V18-0120	59.7	47.5	26.3	79.2	44.9	84.0	58.8
V18-1255	54.9	53.1	22.2	85.9	65.4	88.8	64.6
V19-0519HP	51.8	52.7	23.4	78.7	53.7	90.9	59.7
V19-1409RR	54.1	48.0	26.1	83.6	71.2	88.5	61.4
V20-0009C	53.0	48.8	25.5	86.7	72.7	99.3	64.9
V20-0020CY	58.8	40.6	25.1	73.6	48.7	77.6	56.4
V20-1309R2		43.9	27.2	86.1	60.0	69.7	57.0
Mean	54.6	45.5	26.3	78.8	61.8	82.9	60.0
LSD(0.05)	3.6	5.4	8.3	9.2	11.1	11.3	5.7
LSD(0.10)	3.0	4.5	7.0	7.6	9.2	9.4	4.8
CV(%)	4.1	7.3	19.3	7.1	10.9	8.3	13.0

**TABLE 68 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP V 2025**

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	10/1	9/16	10/15	10/3	10/14	10/15	9/17
AG53XF2	2	3	3	3	0	0	-2
AG54XF0	1	12	6	20	1	2	11
AG56XF2	3	4	3	6	0	1	5
TN21-4659	2	-2	0	6	0	0	0
TN11-5140	0	14	4	17	3	6	14
DA1702-0214F	4	4	-1	3	0	0	0
DS1520-45	1	-3	-1	6	0	0	0
DS1522	0	-9	-2	0	0	-4	-1
K20-3474	2	4	1	6	0	-2	0
K20-6712	2	1	-1	6	0	-3	0
N19-0004	1	11	5	15	3	6	12
N19-0042	2	7	4	8	1	6	4
N19-0573	0	8	2	6	1	4	8
N19-1095	1	13	5	20	3	8	13
N19-1097	0	8	4	8	0	4	11
R19-4593	1	5	1	6	0	2	4
R19-45980	2	6	1	0	0	0	8
R21KB-05522	0	4	-2	6	1	0	2
V16-1706R2	2	4	3	6	0	0	3
V18-0120	1	7	4	6	0	4	5
V18-1255	0	7	3	3	1	1	4
V19-0519HP	4	9	4	8	0	5	3
V19-1409RR	1	7	2	3	0	2	1
V20-0009C	2	1	1	3	0	4	3
V20-0020CY	0	1	1	6	0	2	-1
V20-1309R2	1	3	-2	-3	0		-3
Mean	1	5	2	6	0	2	4
LSD(0.05)	3	5	2	6	1	4	2
CV(%)	136	69	81	61	112	129	39

TABLE 68 - RELATIVE MATURITY (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Springfield, TN	Stoneville, MS	Stuttgart, AR	Test Mean
S16-14869	10/20	9/27	9/18	9/21	10/2
AG53XF2	-4	1	-3	0	0
AG54XF0	5	6		2	7
AG56XF2	0	0	4	1	2
TN21-4659	-11	1	2	1	0
TN11-5140	7	6	12	3	8
DA1702-0214F	-4	1	2	0	1
DS1520-45	-7	0	0	2	0
DS1522	-13	-2	-4	-1	-3
K20-3474	-5	-1	3	2	1
K20-6712	-9	2	-4	1	0
N19-0004	2	5		3	6
N19-0042	0	5	6	1	4
N19-0573	-3	1	7	2	3
N19-1095	3	6		3	7
N19-1097	-1	3	5	3	4
R19-4593	-6	-1	1	2	1
R19-45980	-7	0	1	2	1
R21KB-05522	-3	4	2	1	1
V16-1706R2	-3	0	3	1	2
V18-0120	2	2	2	7	4
V18-1255	-2	0	4	1	2
V19-0519HP	-2	4	4	0	4
V19-1409RR	-4	-1	-1	1	1
V20-0009C	-3	2	0	0	1
V20-0020CY	-1	0	-4	-1	0
V20-1309R2		-2	-3	-1	-2
Mean	-3	2	2	1	2
LSD(0.05)	3	2	2	2	2
CV(%)	.	87	51	85	148

TABLE 69 - PLANT HEIGHT (INCHES)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	25	29	38	28	26	43	32
AG53XF2	29	31	46	28	30	50	30
AG54XF0	28	34	47	31	29	48	33
AG56XF2	27	27	38	23	24	46	33
TN21-4659	25	23	41	22	23	45	27
TN11-5140	27	21	41	28	27	46	27
DA1702-0214F	27	26	41	19	26	44	30
DS1520-45	28	26	40	31	27	51	35
DS1522	27	30	47	30	29	47	45
K20-3474	23	21	34	16	20	41	24
K20-6712	25	18	32	16	20	37	25
N19-0004	28	27	44	24	24	46	29
N19-0042	24	25	37	24	23	41	28
N19-0573	25	23	38	22	21	44	29
N19-1095	26	23	40	24	22	40	25
N19-1097	29	27	40	24	26	46	31
R19-4593	24	22	40	20	23	46	28
R19-45980	27	30	42	28	21	44	31
R21KB-05522	29	26	43	32	24	42	32
V16-1706R2	26	28	38	18	26	47	30
V18-0120	25	24	42	21	22	47	28
V18-1255	24	21	38	19	21	40	27
V19-0519HP	25	24	40	24	21	41	29
V19-1409RR	25	24	44	20	23	46	32
V20-0009C	30	23	43	23	23	47	32
V20-0020CY	27	31	47	23	25	50	35
V20-1309R2	24	23	36	17	20		25
Mean	26	26	41	23	24	45	30
LSD(0.05)	4	6	6	7	3	4	3
CV(%)	10	13	8	18	9	6	5

TABLE 69 - PLANT HEIGHT (INCHES) (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	35	37	22	23	24	36	31
AG53XF2	31	36	22	25	31	56	34
AG54XF0	29	43	20	26	27	56	35
AG56XF2	30	38	21	23	21	45	30
TN21-4659	29	35	18	16	17	40	28
TN11-5140	32	40	21	21	21	43	30
DA1702-0214F	31	41	19	22	18	37	29
DS1520-45	30	48	21	28	37	56	35
DS1522	31	36	25	28	39	51	36
K20-3474	25	25	18	17	16	36	24
K20-6712	26	31	19	17	16	35	24
N19-0004	31	41	19	16	20	46	30
N19-0042	29	32	19	22	21	41	28
N19-0573	28	36	21	22	21	42	29
N19-1095	28	37	20	20	25	42	29
N19-1097	32	33	22	28	25	49	32
R19-4593	31	22	20	20	19	36	28
R19-45980	32	35	23	24	19	42	31
R21KB-05522	35	38	22	23	24	44	32
V16-1706R2	30	34	23	22	21	46	30
V18-0120	32	34	22	19	17	40	29
V18-1255	27	34	20	19	19	41	27
V19-0519HP	27	34	21	22	20	43	29
V19-1409RR	31	30	24	22	19	46	30
V20-0009C	31	32	23	23	21	46	31
V20-0020CY	30	43	22	26	22	50	33
V20-1309R2		35	20	22	19	45	27
Mean	30	36	21	22	22	44	30
LSD(0.05)	3	.	3	3	3	6	2
CV(%)	6	.	10	6	9	8	12

TABLE 70 - PLANT LODGING (1-5)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	1.3	1.3	4.0	1.3	2.7	3.3	3.7
AG53XF2	1.0	1.0	3.3	1.0	2.5	1.7	1.0
AG54XF0	1.0	1.3	3.7	1.0	2.7	1.3	1.0
AG56XF2	1.0	1.0	4.3	1.0	2.5	3.0	1.0
TN21-4659	1.3	1.0	3.0	1.0	2.0	3.0	1.0
TN11-5140	1.0	1.0	3.7	1.0	2.5	3.0	1.3
DA1702-0214F	1.0	1.0	4.0	1.0	3.0	3.7	3.3
DS1520-45	1.0	1.3	4.3	1.7	3.3	3.0	2.0
DS1522	1.3	1.7	3.0	1.0	2.7	3.0	4.0
K20-3474	1.0	1.0	4.0	1.0	2.0	2.7	1.0
K20-6712	1.0	1.0	3.3	1.0	1.7	3.3	1.0
N19-0004	1.0	1.0	4.0	1.0	2.5	2.7	1.3
N19-0042	1.3	1.0	4.3	1.0	2.2	2.3	1.7
N19-0573	1.0	1.0	3.3	1.0	2.2	2.3	1.0
N19-1095	1.0	1.0	4.0	1.0	2.3	3.0	1.0
N19-1097	1.0	1.0	3.7	1.0	2.7	2.7	2.0
R19-4593	1.0	1.0	3.0	1.7	2.0	3.7	1.0
R19-45980	1.7	1.0	3.7	1.0	2.0	3.3	1.7
R21KB-05522	1.3	1.3	3.3	1.0	2.5	3.3	1.7
V16-1706R2	1.0	1.0	4.0	1.0	2.5	2.0	1.0
V18-0120	1.0	1.0	4.0	1.0	2.0	3.3	1.7
V18-1255	1.3	1.0	4.0	1.0	2.0	2.3	1.0
V19-0519HP	1.0	1.0	3.7	1.0	2.0	2.7	1.0
V19-1409RR	1.0	1.3	3.0	1.0	2.0	1.7	1.3
V20-0009C	1.0	1.0	3.3	1.0	2.2	2.7	1.3
V20-0020CY	1.0	1.0	3.7	1.0	2.0	1.7	1.0
V20-1309R2	1.0	1.0	3.0	1.0	1.8		1.3
Mean	1.1	1.1	3.7	1.1	2.3	2.7	1.5
LSD(0.05)	0.5	0.5	0.7	0.5	0.5	1.0	0.8
CV(%)	26.8	30.0	11.4	31.4	12.3	21.5	33.5

TABLE 70 - PLANT LODGING (1-5) (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	3.7	2.0	1.0	1.0	1.0	4.7	2.4
AG53XF2	1.0	1.8	1.0	1.0	1.0	3.7	1.6
AG54XF0	1.0	1.8	1.0	1.0	1.3	2.3	1.6
AG56XF2	1.0	1.0	1.0	1.0	1.0	2.3	1.6
TN21-4659	1.3	1.5	1.0	1.0	1.0	3.0	1.6
TN11-5140	1.0	2.3	1.0	1.0	1.0	2.7	1.7
DA1702-0214F	1.0	2.3	1.0	1.0	1.0	4.7	2.2
DS1520-45	2.0	3.3	1.0	1.0	3.0	4.0	2.4
DS1522	1.0	2.3	1.0	1.5	3.0	4.0	2.3
K20-3474	1.0	1.3	1.0	1.0	1.0	1.0	1.5
K20-6712	1.0	1.3	1.0	1.0	1.0	2.0	1.5
N19-0004	1.0	1.5	1.0	1.0	1.0	2.7	1.7
N19-0042	1.0	1.5	1.0	1.0	1.0	3.3	1.7
N19-0573	1.0	1.3	1.0	1.0	1.0	2.0	1.5
N19-1095	1.0	1.5	1.0	1.0	1.0	2.7	1.7
N19-1097	1.0	1.8	1.0	1.0	1.0	3.0	1.8
R19-4593	1.0	1.8	1.0	1.0	1.0	3.3	1.7
R19-45980	2.0	2.3	1.0	1.0	1.0	4.0	2.0
R21KB-05522	2.7	2.3	1.0	1.0	1.0	4.0	2.0
V16-1706R2	1.0	1.5	1.0	1.0	1.0	2.0	1.5
V18-0120	1.0	1.8	1.0	1.0	1.0	2.3	1.7
V18-1255	1.0	1.3	1.0	1.0	1.0	2.0	1.5
V19-0519HP	1.0	2.0	1.0	1.0	1.0	1.7	1.5
V19-1409RR	1.0	1.5	1.0	1.0	1.0	2.7	1.5
V20-0009C	2.0	1.8	1.0	1.0	1.0	3.0	1.7
V20-0020CY	1.0	1.5	1.0	1.0	1.0	3.3	1.6
V20-1309R2		1.5	1.0	1.0	1.0	3.7	1.6
Mean	1.3	1.7	1.0	1.0	1.2	3.0	1.7
LSD(0.05)	0.8	0.9	.	0.3	0.2	1.1	0.3
CV(%)	39.8	24.1	.	13.4	9.6	22.5	31.9

TABLE 71 - SEED QUALITY (1-5)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	2.0	1.0	2.0	2.3	1.5	2.0	2.5
AG53XF2	2.0	3.0	3.0	2.3	1.3	1.0	3.0
AG54XF0	1.3	1.0	2.0	2.0	1.5	3.0	3.0
AG56XF2	1.3	1.0	3.0	1.7	1.3	2.0	3.0
TN21-4659	1.0	1.0	2.0	1.7	1.3	2.0	2.0
TN11-5140	1.3	1.0	2.0	3.0	1.5	2.0	2.0
DA1702-0214F	2.0	1.0	3.0	2.0	1.7	2.0	2.0
DS1520-45	1.0	1.0	2.0	2.0	1.8	2.0	2.7
DS1522	1.3	1.0	2.0	2.3	1.7	2.0	3.0
K20-3474	1.3	1.0	2.3	2.7	1.5	1.0	2.0
K20-6712	1.0	1.0	2.0	1.7	1.5	2.0	2.7
N19-0004	1.0	2.0	2.0	2.7	1.7	2.0	1.5
N19-0042	1.7	1.0	2.0	3.3	1.5	2.0	1.5
N19-0573	1.3	1.0	2.0	1.7	1.5	1.0	2.0
N19-1095	1.0	1.0	2.0	2.7	1.5	2.0	1.5
N19-1097	1.3	1.0	3.0	2.7	1.8	2.0	2.7
R19-4593	1.0	2.0	1.3	2.0	1.5	1.0	1.5
R19-45980	1.7	1.0	3.0	2.0	1.5	1.0	2.3
R21KB-05522	1.3	1.0	3.0	2.3	1.3	2.0	2.0
V16-1706R2	1.0	1.0	2.0	2.3	1.7	1.0	2.7
V18-0120	2.0	1.0	3.0	2.0	1.5	2.0	1.5
V18-1255	1.7	1.0	1.7	2.7	1.5	2.0	2.5
V19-0519HP	1.7	2.0	3.0	3.0	1.5	2.0	3.0
V19-1409RR	1.3	1.0	2.0	1.7	1.0	2.0	2.7
V20-0009C	1.7	2.0	2.3	2.7	1.5	3.0	1.5
V20-0020CY	1.7	2.0	2.3	3.0	1.5	2.0	2.0
V20-1309R2	1.0	1.0	2.0	2.0	1.7		3.0
Mean	1.4	1.3	2.3	2.3	1.5	1.8	2.3
LSD(0.05)	0.9	.	0.4	0.9	0.4	.	1.1
CV(%)	38.5	.	10.8	24.7	15.3	.	25.0

TABLE 71 - SEED QUALITY (1-5) (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	2.0	.	.	.	1.0	.	1.8
AG53XF2	2.0	.	.	.	3.3	.	2.4
AG54XF0	1.0	.	.	.	2.7	.	1.9
AG56XF2	2.0	.	.	.	2.0	.	1.9
TN21-4659	2.0	.	.	.	1.0	.	1.5
TN11-5140	1.0	.	.	.	2.0	.	1.8
DA1702-0214F	2.0	.	.	.	1.5	.	1.9
DS1520-45	1.0	.	.	.	2.3	.	1.8
DS1522	2.0	.	.	.	2.0	.	1.9
K20-3474	2.0	.	.	.	2.0	.	1.8
K20-6712	2.0	.	.	.	2.3	.	1.8
N19-0004	1.0	.	.	.	2.0	.	1.8
N19-0042	2.0	.	.	.	1.7	.	1.8
N19-0573	2.0	.	.	.	1.3	.	1.5
N19-1095	2.0	.	.	.	1.0	.	1.6
N19-1097	2.0	.	.	.	2.3	.	2.1
R19-4593	2.0	.	.	.	2.0	.	1.6
R19-45980	1.0	.	.	.	2.0	.	1.8
R21KB-05522	2.0	.	.	.	1.3	.	1.8
V16-1706R2	2.0	.	.	.	1.3	.	1.7
V18-0120	1.0	.	.	.	1.7	.	1.8
V18-1255	2.0	.	.	.	2.0	.	1.9
V19-0519HP	2.0	.	.	.	1.7	.	2.2
V19-1409RR	2.0	.	.	.	2.0	.	1.7
V20-0009C	2.0	.	.	.	2.0	.	2.0
V20-0020CY	1.0	.	.	.	3.0	.	2.1
V20-1309R2	.	.	.	.	2.0	.	1.8
Mean	1.7	.	.	.	1.9	.	1.8
LSD(0.05)	.	.	.	.	0.6	.	0.4
CV(%)	.	.	.	.	20.0	.	29.6

**TABLE 72 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP V 2025**

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	17.7	14.7	15.5	11.9	13.6	13.7	13.4
AG53XF2	18.1	17.4	17.1	13.7	13.9	17.4	13.5
AG54XF0	16.1	14.1	16.4	14.5	14.4	16.6	12.4
AG56XF2	17.7	16.2	16.8	12.8	13.6	14.6	13.9
TN21-4659	16.6	12.4	13.2	11.9	12.0	13.1	10.2
TN11-5140	15.9	14.1	14.2	14.4	12.2	12.6	12.2
DA1702-0214F	17.6	16.2	15.9	12.8	13.1	14.9	12.9
DS1520-45	17.9	18.1	20.1	16.5	18.2	17.4	16.4
DS1522	15.2	13.2	13.8	10.3	12.2	13.8	13.2
K20-3474	15.9	14.1	14.8	11.8	11.6	14.4	13.4
K20-6712	15.7	14.6	15.2	12.7	12.5	14.0	12.3
N19-0004	17.3	16.1	17.5	14.3	14.8	14.8	12.9
N19-0042	16.4	15.0	15.4	13.1	12.5	13.6	12.2
N19-0573	15.4	13.3	13.7	10.3	10.7	12.5	11.8
N19-1095	15.4	14.4	14.2	13.3	11.9	12.9	11.9
N19-1097	18.6	16.7	15.9	14.3	13.2	14.3	12.7
R19-4593	16.5	13.7	12.6	11.1	9.6	11.8	11.8
R19-45980	16.0	13.6	13.4	10.6	10.0	12.7	13.2
R21KB-05522	17.9	16.0	14.5	13.0	12.0	18.0	12.2
V16-1706R2	17.0	16.4	17.0	13.5	13.9	15.8	13.7
V18-0120	17.7	17.2	16.3	15.3	13.4	14.8	15.0
V18-1255	16.7	15.7	15.6	11.8	12.1	14.9	13.0
V19-0519HP	17.1	14.9	15.6	12.2	12.1	13.9	13.4
V19-1409RR	14.9	14.3	14.4	12.0	10.9	13.4	12.4
V20-0009C	17.3	16.9	14.6	12.1	12.1	13.8	12.7
V20-0020CY	18.0	16.5	17.2	14.9	14.5	15.8	15.6
V20-1309R2	17.7	18.3	17.2	12.5	13.9		14.3
Mean	16.8	15.3	15.5	12.9	12.8	14.4	13.1
LSD(0.05)	3.1	.	0.9	1.9	0.6	.	1.1
CV(%)	11.1	.	3.7	9.1	2.7	.	4.2

TABLE 72 - SEED SIZE (GRAMS PER 100 SEED) (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	16.5	14.0	.	.	14.1	.	14.5
AG53XF2	18.2	13.9	.	.	13.6	.	15.5
AG54XF0	17.9	13.4	.	.	13.3	.	14.8
AG56XF2	16.3	14.5	.	.	14.8	.	15.1
TN21-4659	13.5	12.3	.	.	11.8	.	12.7
TN11-5140	13.6	12.3	.	.	13.5	.	13.6
DA1702-0214F	16.5	14.5	.	.	13.8	.	14.8
DS1520-45	19.8	18.6	.	.	17.5	.	18.0
DS1522	15.3	10.9	.	.	12.4	.	12.9
K20-3474	14.7	11.1	.	.	13.1	.	13.4
K20-6712	14.5	12.2	.	.	12.7	.	13.6
N19-0004	16.8	13.9	.	.	14.8	.	15.4
N19-0042	14.6	12.9	.	.	13.4	.	14.0
N19-0573	14.2	11.6	.	.	12.8	.	12.6
N19-1095	14.6	12.3	.	.	12.6	.	13.4
N19-1097	15.1	13.7	.	.	13.1	.	14.8
R19-4593	12.5	10.8	.	.	13.4	.	12.5
R19-45980	12.6	11.3	.	.	13.4	.	12.7
R21KB-05522	13.2	12.2	.	.	14.3	.	14.3
V16-1706R2	16.5	14.4	.	.	13.7	.	15.2
V18-0120	17.0	14.8	.	.	15.4	.	15.7
V18-1255	14.9	14.0	.	.	13.8	.	14.2
V19-0519HP	16.0	15.1	.	.	13.6	.	14.4
V19-1409RR	14.9	12.0	.	.	13.5	.	13.2
V20-0009C	14.7	13.5	.	.	14.1	.	14.2
V20-0020CY	18.0	15.8	.	.	15.0	.	16.1
V20-1309R2	.	16.2	.	.	15.9	.	15.9
Mean	15.5	13.4	.	.	13.8	.	14.4
LSD(0.05)	.	1.2	.	.	1.0	.	0.8
CV(%)	.	4.4	.	.	4.3	.	7.6

TABLE 73 - OIL (%)†
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	19.9	19.4	20.3	.	.	18.6	19.5
AG53XF2	20.9	20.3	18.0	.	.	18.5	19.8
AG54XF0	19.9	19.3	18.0	.	.	18.9	18.3
AG56XF2	19.9	19.5	18.2	.	.	18.1	18.6
TN21-4659	20.8	19.7	18.1	.	.	17.7	18.7
TN11-5140	20.8	19.8	18.2	.	.	18.2	18.6
DA1702-0214F	19.2	19.3	17.3	.	.	18.4	18.5
DS1520-45	21.6	20.8	19.4	.	.	18.7	20.7
DS1522	20.1	18.6	17.3	.	.	18.1	18.2
K20-3474	19.9	19.2	17.1	.	.	17.1	18.5
K20-6712	19.2	18.0	17.3	.	.	18.0	17.6
N19-0004	20.8	21.2	19.2	.	.	19.2	19.9
N19-0042	19.8	17.9	17.9	.	.	18.5	17.6
N19-0573	20.4	18.9	18.3	.	.	18.5	18.6
N19-1095	20.3	19.3	18.0	.	.	18.3	18.6
N19-1097	19.8	18.7	18.9	.	.	18.3	17.8
R19-4593	20.1	19.8	18.1	.	.	18.1	18.8
R19-45980	20.0	19.0	17.6	.	.	18.2	18.5
R21KB-05522	20.7	20.0	19.6	.	.	18.8	19.2
V16-1706R2	20.6	19.0	17.9	.	.	17.5	18.2
V18-0120	21.1	20.2	17.8	.	.	18.6	18.8
V18-1255	20.6	18.4	18.5	.	.	18.9	19.0
V19-0519HP	19.8	17.7	17.1	.	.	18.6	17.3
V19-1409RR	20.3	19.6	18.2	.	.	17.9	18.9
V20-0009C	19.3	18.2	17.1	.	.	17.1	18.1
V20-0020CY	20.4	19.3	19.8	.	.	18.5	19.2
V20-1309R2	19.8	17.2	16.5	.	.	.	17.1
Mean	20.2	19.2	18.1	.	.	18.3	18.6
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 73 - OIL (%)† (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	19.6	19.3	.	19.9	19.3	.	19.5
AG53XF2	20.2	19.2	.	20.1	19.8	.	19.6
AG54XF0	20.5	18.9	.	18.8	18.1	.	19.0
AG56XF2	18.9	17.9	.	18.7	18.3	.	18.7
TN21-4659	20.1	18.4	.	19.7	19.0	.	19.1
TN11-5140	20.0	18.9	.	19.0	18.5	.	19.1
DA1702-0214F	18.9	18.4	.	18.7	18.1	.	18.5
DS1520-45	21.2	20.0	.	19.4	20.6	.	20.3
DS1522	18.9	18.6	.	18.4	18.8	.	18.6
K20-3474	19.3	17.5	.	18.4	18.4	.	18.4
K20-6712	18.9	17.5	.	18.4	17.3	.	18.0
N19-0004	20.9	19.7	.	20.7	20.4	.	20.2
N19-0042	19.9	18.7	.	20.2	17.4	.	18.6
N19-0573	20.2	18.8	.	18.7	18.4	.	19.0
N19-1095	20.1	18.6	.	18.7	18.1	.	18.9
N19-1097	20.0	16.8	.	18.3	17.8	.	18.5
R19-4593	19.6	18.2	.	19.2	18.3	.	18.9
R19-45980	19.5	18.0	.	18.6	17.8	.	18.6
R21KB-05522	19.7	21.9	.	20.1	19.4	.	19.9
V16-1706R2	19.4	18.2	.	19.4	18.4	.	18.7
V18-0120	19.5	18.9	.	19.6	18.2	.	19.2
V18-1255	20.1	19.4	.	18.6	18.7	.	19.1
V19-0519HP	.	18.1	.	16.8	17.0	.	17.9
V19-1409RR	20.0	18.8	.	19.7	18.7	.	19.1
V20-0009C	19.7	18.0	.	17.7	18.0	.	18.1
V20-0020CY	20.4	19.3	.	19.2	19.6	.	19.5
V20-1309R2		17.6	.	18.6	17.3	.	17.7
Mean	19.8	18.7	.	19.0	18.5	.	18.9
LSD(0.05)	.	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	.	2.7

TABLE 74 - PROTEIN (%)†
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	33.2	35.7	32.8	.	.	33.6	35.1
AG53XF2	32.0	36.0	36.2	.	.	33.7	34.3
AG54XF0	34.0	37.0	37.2	.	.	33.7	37.2
AG56XF2	33.3	35.3	35.8	.	.	33.5	36.3
TN21-4659	32.0	34.6	35.5	.	.	35.8	35.2
TN11-5140	32.5	36.0	37.1	.	.	35.9	37.0
DA1702-0214F	34.3	35.9	37.3	.	.	34.2	36.7
DS1520-45	32.5	36.4	37.3	.	.	36.4	35.9
DS1522	33.4	36.3	37.0	.	.	35.9	38.1
K20-3474	33.9	35.8	36.2	.	.	36.3	36.2
K20-6712	34.2	36.7	37.3	.	.	34.6	36.4
N19-0004	33.3	35.2	36.9	.	.	35.7	37.4
N19-0042	36.2	38.9	39.8	.	.	37.1	39.3
N19-0573	34.6	38.0	38.8	.	.	36.0	38.6
N19-1095	34.9	37.7	38.5	.	.	36.4	38.0
N19-1097	36.2	39.6	37.6	.	.	36.9	38.8
R19-4593	32.7	35.5	35.7	.	.	35.5	36.3
R19-45980	32.7	36.7	36.6	.	.	35.0	37.0
R21KB-05522	32.6	36.4	33.9	.	.	35.3	36.2
V16-1706R2	32.0	36.1	35.4	.	.	35.1	35.6
V18-0120	32.8	35.4	38.6	.	.	36.4	37.6
V18-1255	33.4	37.2	36.9	.	.	35.3	36.8
V19-0519HP	36.1	41.1	39.2	.	.	36.5	40.0
V19-1409RR	31.5	34.6	35.0	.	.	34.5	34.5
V20-0009C	34.8	38.5	38.1	.	.	37.0	37.5
V20-0020CY	34.8	40.3	35.5	.	.	34.8	38.5
V20-1309R2	32.7	38.2	36.6	.	.	.	37.1
Mean	33.6	36.9	36.8	.	.	35.4	36.9
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

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

TABLE 74 - PROTEIN (%)† (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	33.8	33.9	.	35.3	34.7	.	34.2
AG53XF2	32.3	33.8	.	34.1	33.1	.	33.9
AG54XF0	33.1	34.3	.	35.4	36.3	.	35.4
AG56XF2	33.5	34.8	.	36.2	36.7	.	35.1
TN21-4659	32.7	34.5	.	34.3	35.7	.	34.5
TN11-5140	33.8	35.2	.	35.6	36.0	.	35.5
DA1702-0214F	34.6	36.0	.	36.5	37.6	.	35.9
DS1520-45	34.4	36.7	.	35.1	36.8	.	35.7
DS1522	35.5	35.1	.	35.9	35.9	.	35.9
K20-3474	34.0	35.9	.	36.6	37.1	.	35.8
K20-6712	34.5	35.8	.	36.4	37.0	.	35.9
N19-0004	34.1	35.1	.	35.2	35.4	.	35.4
N19-0042	36.3	37.7	.	34.8	39.0	.	37.7
N19-0573	34.8	36.8	.	37.6	37.3	.	36.9
N19-1095	35.2	36.6	.	37.4	38.0	.	37.0
N19-1097	35.7	32.4	.	38.0	38.8	.	37.1
R19-4593	34.6	35.5	.	35.2	35.9	.	35.2
R19-45980	34.8	36.5	.	35.6	36.7	.	35.7
R21KB-05522	34.5	31.1	.	34.5	36.1	.	34.5
V16-1706R2	32.8	35.0	.	35.3	35.8	.	34.8
V18-0120	35.7	35.8	.	36.4	38.3	.	36.3
V18-1255	34.4	35.7	.	36.5	36.4	.	35.8
V19-0519HP	.	37.8	.	40.7	40.8	.	38.8
V19-1409RR	31.9	33.8	.	34.6	34.3	.	33.8
V20-0009C	33.9	36.7	.	37.8	37.5	.	36.9
V20-0020CY	33.8	36.9	.	37.3	37.7	.	36.6
V20-1309R2	.	36.0	.	35.9	37.3	.	36.0
Mean	34.2	35.4	.	36.1	36.7	.	35.8
LSD(0.05)	.	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	.	2.5

TABLE 75 - ESTIMATED MEAL PROTEIN (%)†
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Belle Mina, AL	Bossier City, LA	Fisk, MO	Jackson, TN	Knoxville, TN	Manhattan, KS	Marianna, AR
S16-14869	45.1	48.1	44.7	.	.	44.8	47.4
AG53XF2	44.0	49.1	48.0	.	.	44.9	46.5
AG54XF0	46.1	49.8	49.3	.	.	45.2	49.5
AG56XF2	45.2	47.7	47.6	.	.	44.5	48.5
TN21-4659	43.9	46.8	47.1	.	.	47.3	47.1
TN11-5140	44.6	48.8	49.3	.	.	47.8	49.4
DA1702-0214F	46.1	48.4	49.0	.	.	45.6	48.9
DS1520-45	45.1	50.0	50.3	.	.	48.7	49.2
DS1522	45.4	48.5	48.6	.	.	47.7	50.6
K20-3474	46.0	48.2	47.5	.	.	47.5	48.3
K20-6712	46.0	48.6	49.0	.	.	45.8	48.0
N19-0004	45.7	48.6	49.6	.	.	48.0	50.8
N19-0042	49.1	51.5	52.7	.	.	49.4	51.8
N19-0573	47.2	50.9	51.6	.	.	48.0	51.5
N19-1095	47.6	50.8	51.0	.	.	48.5	50.7
N19-1097	49.1	52.9	50.4	.	.	49.1	51.3
R19-4593	44.5	48.1	47.4	.	.	47.1	48.6
R19-45980	44.4	49.2	48.3	.	.	46.5	49.3
R21KB-05522	44.7	49.5	45.8	.	.	47.3	48.7
V16-1706R2	43.8	48.4	46.9	.	.	46.3	47.3
V18-0120	45.2	48.2	51.0	.	.	48.6	50.3
V18-1255	45.7	49.6	49.2	.	.	47.4	49.4
V19-0519HP	48.9	54.3	51.4	.	.	48.8	52.6
V19-1409RR	43.0	46.8	46.5	.	.	45.6	46.2
V20-0009C	46.9	51.2	50.0	.	.	48.5	49.8
V20-0020CY	47.5	54.3	48.1	.	.	46.4	51.8
V20-1309R2	44.3	50.1	47.6	.	.	.	48.6
Mean	45.7	49.6	48.8	.	.	47.1	49.3
LSD(0.05)	.	.	.	.	.	.	.
CV(%)	.	.	.	.	.	.	.

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 75 - ESTIMATED MEAL PROTEIN (%)† (continued)
UNIFORM GROUP V 2025

STRAIN/ VARIETY	Pittsburg, KS	Plymouth, NC	Springfield, TN	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	45.6	45.7	.	47.9	46.7	.	46.2
AG53XF2	44.0	45.5	.	46.4	44.9	.	45.9
AG54XF0	45.3	46.0	.	47.4	48.2	.	47.4
AG56XF2	44.9	46.1	.	48.4	48.8	.	46.8
TN21-4659	44.5	46.0	.	46.4	47.9	.	46.3
TN11-5140	46.0	47.2	.	47.8	48.0	.	47.6
DA1702-0214F	46.4	48.0	.	48.8	49.9	.	47.9
DS1520-45	47.5	49.9	.	47.4	50.4	.	48.7
DS1522	47.6	46.9	.	47.8	48.1	.	47.9
K20-3474	45.8	47.3	.	48.7	49.4	.	47.6
K20-6712	46.2	47.2	.	48.5	48.6	.	47.6
N19-0004	46.9	47.5	.	48.2	48.3	.	48.2
N19-0042	49.2	50.4	.	47.4	51.3	.	50.3
N19-0573	47.4	49.3	.	50.3	49.7	.	49.6
N19-1095	47.8	48.9	.	50.0	50.4	.	49.5
N19-1097	48.5	42.3	.	50.6	51.3	.	49.5
R19-4593	46.8	47.2	.	47.4	47.8	.	47.2
R19-45980	47.0	48.4	.	47.5	48.5	.	47.7
R21KB-05522	46.8	43.3	.	46.9	48.7	.	46.8
V16-1706R2	44.2	46.5	.	47.6	47.7	.	46.5
V18-0120	48.2	48.0	.	49.2	50.9	.	48.9
V18-1255	46.7	48.1	.	48.7	48.7	.	48.2
V19-0519HP	.	50.2	.	53.1	53.4	.	51.4
V19-1409RR	43.3	45.2	.	46.8	45.9	.	45.5
V20-0009C	45.9	48.6	.	49.9	49.7	.	48.9
V20-0020CY	46.2	49.7	.	50.2	51.0	.	49.5
V20-1309R2		47.5	.	47.9	49.0	.	47.5
Mean	46.3	47.3	.	48.4	49.0	.	48.0
LSD(0.05)	.	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	.	2.2

TABLE 76 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP V-EARLY 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	S16-14869	Commercial check	check		Conv	
2	AG53XF2	Commercial check	check		XF	
3	AG54XF0	Commercial check	check		XF	
4	TN21-4659	Commercial check	check			
5	DS184-11	(DS25-1 x PI 417050) x DS31-243	Rusty Smith	F5	Conv	Low seed damage
6	K179228-5 HO	K12-1355 / S14-17636	Schapaugh		RR1	
7	K22-5032	K16-1914 / TN17-4414	Schapaugh		Conv	
8	K22-5638	K15-1809 / S13-1955C	Schapaugh		Conv	
9	K22-6614	K15-1855 / TN5601T	Schapaugh		Conv	
10	K22-6898	K15-1874 / DA1134-015F	Schapaugh		Conv	
11	K22-8309 GT HO	K179244-16 ERR / K179240-8 ERR	Schapaugh		RR1	
12	N11-7620	NC-Roy X PI 587563B	Fallen		Conv	Heat tol./Slow wilting
13	N16-7526	Holladay x Fiskeby 3	Fallen		Conv	Ozone&heat tol./Slow wilting
14	N19-0238	N08-174-1 x S09-13185	Mian		Conv	High oil
15	N19-0318	N09-9-1 x LMN09-19	Mian		Conv	High protein
16	R20-1429	S12-1362 x Walters	Vieira		Conv	SRKN ,Flood tolerance
17	R23PR-00067E	R18-14272*4 x CTV-DNR-1007	Vieira		E3	
18	TN21-5050	TN09-008 x S13-10590	Pantalone		Conv	
19	TN22-5024LL	Ellis-HOLL x K15-1310	Pantalone		Conv	Low LN
20	TN22-5028N	Ellis-HOLL x K15-1310	Pantalone		Conv	
21	V18-0178TI	V11-0695 x S09-13185	Zhang		Conv	
22	V21-1438	V14-0079 x R12-226	Zhang		Conv	
23	V21-2521LL	V15-1905 x LL 55	Zhang		LL	
24	V21-2543LL	V15-1467 x LL 55	Zhang		LL	
25	V21-4034R1	V12-1416 x S13-1805	Zhang		RR1	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®, RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, SRKN= southern root knot nematode, and STS= sulfonyleurea tolerant

**TABLE 77 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST V-EARLY 2025**

STRAIN/ VARIETY	SEED YIELD†	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
							Race 2	Race 3	Race 5		
S16-14869	66.4	1	6	0	2.2	30	1.0	.	1.0	R	1
AG53XF2	57.2	19	14	0	1.4	33	3.8	.	2.4	R	1
AG54XF0	61.3	5	10	8	1.4	34	3.8	.	2.0	R	1
TN21-4659	61.2	7	10	-1	1.4	27	1.4	.	1.0	MS	4
DS184-11	57.7	18	14	0	3.0	37	4.2	.	1.0	R	1
K179228-5 HO	58.3	16	13	0	1.8	23	3.6	.	1.4	R	1
K22-5032	58.3	17	14	-2	1.8	25	1.8	.	1.0	S	5
K22-5638	60.7	9	11	-1	1.3	23	4.3	.	1.4	S	5
K22-6614	59.1	13	12	1	1.4	31	3.8	.	1.4	R	1
K22-6898	61.2	8	10	-1	1.3	27	1.0	.	1.0	R	1
K22-8309 GT HO	60.4	11	12	-5	1.3	24	.	.	1.0	R	1
N11-7620	51.9	24	19	8	2.0	31	4.2	.	1.6	S	5
N16-7526	50.2	25	21	2	1.6	25	4.8	.	2.8	S	5
N19-0238	63.5	2	9	-1	1.3	26	3.8	.	1.6	R	1
N19-0318	58.6	15	13	4	1.5	30	4.8	.	1.6	R	1
R20-1429	60.7	10	13	-2	1.9	29	3.5	.	2.3	S	5
R23PR-00067E	53.6	23	18	-3	1.9	32	2.8	.	3.7	R	1
TN21-5050	59.0	14	12	3	1.3	23	2.0	.	1.2	R	1
TN22-5024LL	56.7	20	17	1	1.8	39	3.2	.	1.4	R	1
TN22-5028N	61.3	6	10	1	1.9	37	2.8	.	1.3	R	1
V18-0178TI	61.7	4	10	0	1.2	26	2.0	.	1.6	R	1
V21-1438	59.6	12	12	-3	1.2	23	3.2	.	1.8	S	5
V21-2521LL	56.7	21	17	-3	1.3	25	2.2	.	1.5	S	5
V21-2543LL	61.8	3	10	1	1.4	28	4.0	.	1.8	R	1
V21-4034R1	55.0	22	18	0	1.3	25	4.2	.	2.8	R	1
Mean	58.9	.	.	0	1.6	29	.	.	.	.	.
LSD(0.05)	7.5	.	.	3	0.4	3	.	.	.	.	.
LSD(0.10)	6.3	.	.	.	.	.	.	.	.	.	.
CV(%)	13.8	.	.	952	33.2	13	.	.	.	.	.

†Data not included in the mean due to CV >15%: Jackson and Knoxville. Certain trials had damage consistent with Dicamba exposure, which may have resulted in an unfair yield advantage for Dicamba resistant check lines.

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

TABLE 78 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST V-EARLY 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
S16-14869	1.6	14.1	34.4	19.6	46.5	W		
AG53XF2	2.4	15.5	34.6	19.3	46.6	P	Lt	Tn
AG54XF0	2.2	15.0	35.1	19.1	47.1	P	Lt	Tn
TN21-4659	1.8	12.4	34.7	19.3	46.7			
DS184-11	2.2	13.4	36.8	17.8	48.6	W	G	Br
K179228-5 HO	2.3	14.4	36.5	19.7	49.4			
K22-5032	2.0	12.8	37.0	18.9	49.5			
K22-5638	1.9	12.6	35.5	18.7	47.5			
K22-6614	1.9	12.8	37.1	18.3	49.4			
K22-6898	2.0	13.3	36.1	18.5	48.2			
K22-8309 GT HO	2.4	12.4	35.1	19.8	47.5			
N11-7620	2.5	13.2	35.6	18.3	47.4	W	T	
N16-7526	2.0	14.5	35.6	19.0	47.8	P	G	
N19-0238	1.8	14.6	36.5	18.6	48.7	P	T	
N19-0318	1.9	14.1	39.7	18.0	52.7	W	T	
R20-1429	1.5	12.2	34.7	19.3	46.8	P	T	T
R23PR-00067E	2.6	13.9	36.5	17.9	48.3	P	G	T
TN21-5050	2.5	14.8	35.5	19.6	47.9	P	T	
TN22-5024LL	2.2	12.2	34.5	19.3	46.5	W	G	
TN22-5028N	2.0	11.7	35.3	19.1	47.4	W	G	
V18-0178TI	2.5	13.3	36.3	19.5	49.1	W	T	
V21-1438	2.0	12.8	36.6	19.5	49.3	P	Lt	
V21-2521LL	2.0	13.6	35.6	19.6	48.2	W	T	
V21-2543LL	2.1	15.4	36.0	19.6	48.6	W	T	
V21-4034R1	1.4	12.8	34.6	19.6	46.7	W	Lt	
Mean	2.1	13.5	35.8	19.0	48.1			
LSD(0.05)	0.8	1.2	1.3	0.7	1.5			
LSD(0.10)								
CV(%)	37.5	9.2	3.1	3.2	2.7			

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

TABLE 79 - SEED YIELD (BUSHEL PER ACRE)
PRELIMINARY GROUP V-EARLY 2025 †

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR *	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	29.7	48.4	32.2	56.9	56.5	57.9	67.8	83.5	93.7	66.4
AG53XF2	26.2	45.3	35.6	58.8	42.4	56.1	64.3	52.5	81.4	57.2
AG54XF0	17.9	55.2	43.7	45.6	44.5	56.5	68.5	68.5	90.4	61.3
TN21-4659	21.3	46.0	33.3	52.1	43.1	62.5	72.3	.	89.5	61.2
DS184-11	27.3	42.3	30.5	44.1	59.2	48.4	76.1	63.5	72.9	57.7
K179228-5 HO	25.7	38.4	32.5	61.4	56.6	57.8	64.2	62.9	68.3	58.3
K22-5032	16.9	39.4	30.4	53.1	55.8	60.5	61.6	57.2	80.5	58.3
K22-5638	21.0	51.4	33.2	66.1	44.9	55.9	67.7	47.4	91.8	60.7
K22-6614	17.6	45.7	24.7	46.0	49.9	55.7	65.8	63.0	87.6	59.1
K22-6898	24.7	45.4	42.3	51.2	56.7	64.4	70.1	55.4	85.2	61.2
K22-8309 GT HO	18.9	44.1	34.4	50.5	62.7	55.3	64.0	65.7	80.6	60.4
N11-7620	14.7	45.1	41.4	36.4	51.7	49.9	54.1	50.8	75.5	51.9
N16-7526	16.7	43.2	39.8	36.5	44.7	46.6	52.5	59.1	68.6	50.2
N19-0238	21.3	44.5	32.0	57.0	62.0	53.4	69.6	72.8	85.3	63.5
N19-0318	18.0	46.0	34.9	38.6	49.4	49.8	77.1	68.4	80.6	58.6
R20-1429	25.3	41.0	39.1	56.5	45.1	53.5	70.4	73.4	85.0	60.7
R23PR-00067E	20.6	36.1	26.0	54.8	58.8	51.0	49.9	62.1	62.6	53.6
TN21-5050	19.3	43.8	34.2	59.4	48.4	64.9	59.3	39.7	96.6	59.0
TN22-5024LL	21.0	41.0	39.5	50.1	45.4	55.2	63.2	63.9	78.1	56.7
TN22-5028N	19.3	44.8	38.8	53.0	58.9	55.9	73.7	63.4	79.4	61.3
V18-0178TI	13.5	49.3	32.3	58.1	48.4	55.4	69.6	57.3	93.6	61.7
V21-1438	27.2	43.3	26.7	60.0	54.2	54.2	68.2	43.5	94.2	59.6
V21-2521LL	12.3	42.8	33.5	44.0	57.8	48.7	59.7	63.2	80.4	56.7
V21-2543LL	21.5	50.7	36.8	43.3	43.9	51.7	74.5	74.2	94.3	61.8
V21-4034R1	14.3	41.9	28.7	42.0	52.5	51.9	55.7	52.2	88.5	55.0
Mean	20.5	44.6	34.3	51.0	51.7	54.9	65.6	61.0	83.4	58.9
LSD(0.05)	17.9	6.0	16.3	12.6	17.9	3.5	11.3	14.9	14.4	7.5
LSD(0.10)	14.8	4.9	13.4	10.4	14.8	2.9	9.4	12.3	11.9	6.3
CV(%)	42.3	6.5	20.3	12.0	15.5	3.1	8.4	11.8	8.3	13.8

† Data not included in the test mean due to CV > 15%: Jackson and Knoxville.

*Locations with obvious damage consistent with exposure to the herbicide Dicamba. The Dicamba resistant checks (all the AG lines) may have had a yield advantage.

**TABLE 80 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP V-EARLY 2025**

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	10/4	.	10/15	10/18	9/16	10/20	9/17	9/20	.	10/3
AG53XF2	5	.	2	-4	0	-2	-3	2	.	0
AG54XF0	18	.	2	6	7	3	15	6	.	8
TN21-4659	0	.	1	-3	0	-4	1	-1	.	-1
DS184-11	5	.	0	0	5	-6	-1	0	.	0
K179228-5 HO	5	.	0	-4	0	-3	1	-1	.	0
K22-5032	0	.	1	-4	-1	-3	-3	-1	.	-2
K22-5638	0	.	0	-4	3	-7	1	4	.	-1
K22-6614	0	.	-1	3	0	1	3	-1	.	1
K22-6898	5	.	0	-3	-2	-7	-3	-1	.	-1
K22-8309 GT HO	-5	.	-1	-4	-6	-8	-10	-4	.	-5
N11-7620	15	.	2	9	13	3	13	4	.	8
N16-7526	0	.	2	0	4	1	4	2	.	2
N19-0238	0	.	-1	-1	1	-7	-1	2	.	-1
N19-0318	5	.	3	3	8	2	5	4	.	4
R20-1429	0	.	-1	-4	3	-8	-1	-1	.	-2
R23PR-00067E	0	.	1	-5	-3	-10	2	-4	.	-3
TN21-5050	0	.	2	-2	9	2	9	4	.	3
TN22-5024LL	5	.	-1	-4	4	-1	6	-1	.	1
TN22-5028N	0	.	-1	-4	5	-2	6	2	.	1
V18-0178TI	-4	.	0	3	2	-1	2	2	.	0
V21-1438	-5	.	-1	-5	0	-9	-3	0	.	-3
V21-2521LL	-5	.	-1	-4	-1	-8	1	-1	.	-3
V21-2543LL	0	.	1	1	5	0	3	1	.	1
V21-4034R1	0	.	-1	-1	2	-4	-1	1	.	0
Mean	2	.	0	-1	2	-3	2	1	.	0
LSD(0.05)	10	.	2	3	4	5	5	2	.	3
CV(%)	290	.	372	.	72	.	133	127	.	952

TABLE 81 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	19	33	28	43	30	30	23	25	39	30
AG53XF2	25	31	29	46	32	30	22	26	54	33
AG54XF0	24	34	31	46	35	29	23	28	56	34
TN21-4659	18	24	21	46	28	31	17	21	42	27
DS184-11	30	33	34	49	40	35	29	36	45	37
K179228-5 HO	15	16	17	37	22	25	17	20	35	23
K22-5032	17	23	18	37	27	28	18	19	43	25
K22-5638	14	17	17	39	24	24	16	19	36	23
K22-6614	24	30	17	44	31	29	21	30	53	31
K22-6898	13	23	25	41	27	26	18	22	45	27
K22-8309 GT HO	16	24	18	40	22	26	16	19	40	24
N11-7620	20	35	32	53	27	36	16	24	42	31
N16-7526	17	20	23	41	21	26	17	20	38	25
N19-0238	15	24	23	43	25	27	22	21	40	26
N19-0318	20	38	29	43	27	29	23	26	43	30
R20-1429	19	27	22	48	31	30	20	24	42	29
R23PR-00067E	20	28	27	44	40	29	26	31	47	32
TN21-5050	14	24	21	37	22	24	16	16	38	23
TN22-5024LL	29	31	33	47	43	33	38	36	62	39
TN22-5028N	24	29	29	46	47	29	38	37	57	37
V18-0178TI	15	25	24	41	26	27	18	20	39	26
V21-1438	13	17	17	41	22	24	13	18	42	23
V21-2521LL	14	23	20	42	24	26	13	20	43	25
V21-2543LL	18	22	26	44	28	29	19	22	44	28
V21-4034R1	15	18	23	43	24	29	14	19	45	25
Mean	19	26	24	43	29	28	20	24	44	29
LSD(0.05)	6	.	6	5	5	3	4	4	8	3
CV(%)	16	.	12	6	9	4	8	8	8	13

TABLE 82 - PLANT LODGING (1-5)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	1.0	1.5	3.3	3.0	1.5	3.0	1.0	1.0	4.5	2.2
AG53XF2	1.0	1.5	2.5	1.0	1.0	1.0	1.0	1.0	3.0	1.4
AG54XF0	1.0	1.3	2.5	1.0	1.5	1	1.0	1.0	2.5	1.4
TN21-4659	1.0	1.3	2.0	2.0	1.0	1.0	1.0	1.0	2.5	1.4
DS184-11	1.5	2.5	4.0	3.0	2.0	3.0	2.0	4.0	5.0	3.0
K179228-5 HO	1.0	1.0	2.5	2.5	1.0	2.0	1.0	1.0	4.0	1.8
K22-5032	1.0	1.3	3.0	2.0	1.5	1.5	1.0	1.0	4.0	1.8
K22-5638	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.3
K22-6614	1.0	1.5	2.0	1.5	1.0	1.0	1.0	1.5	2.0	1.4
K22-6898	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	2.0	1.3
K22-8309 GT HO	1.0	1.0	2.0	2.0	1.0	1.0	1.0	1.0	2.0	1.3
N11-7620	1.0	2.0	2.8	2.0	1.0	2.5	1.0	1.0	4.5	2.0
N16-7526	1.0	1.5	2.5	1.5	1.0	1.0	1.0	1.0	3.5	1.6
N19-0238	1.0	1.0	2.5	1.5	1.0	1.0	1.0	1.0	2.0	1.3
N19-0318	1.0	1.5	3.2	1.0	1.0	1.0	1.0	1.5	2.0	1.5
R20-1429	1.0	1.5	2.8	3.0	1.0	1.5	1.0	1.0	4.5	1.9
R23PR-00067E	1.0	1.5	2.5	2.5	2.0	1.0	1.0	1.0	5.0	1.9
TN21-5050	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	2.0	1.3
TN22-5024LL	1.0	1.0	2.5	1.0	2.5	1.0	2.0	1.0	4.0	1.8
TN22-5028N	1.0	1.3	2.0	1.0	2.5	1.0	2.0	2.0	4.0	1.9
V18-0178TI	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	1.5	1.2
V21-1438	1.0	1.0	1.5	1.0	1.0	1.0	1.0	1.0	2.0	1.2
V21-2521LL	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	2.0	1.3
V21-2543LL	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	3.5	1.4
V21-4034R1	1.0	1.0	2.0	1.5	1.0	1.0	1.0	1.0	2.0	1.3
Mean	1.0	1.3	2.4	1.7	1.3	1.3	1.1	1.2	3.0	1.6
LSD(0.05)	0.3	0.3	0.4	1.1	1.1	0.5	.	0.4	0.8	0.4
CV(%)	13.9	11.0	6.8	31.5	40.5	18.0	0.0	16.7	13.2	33.2

TABLE 83 - SEED QUALITY (1-5)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	2.0	.	1.5	2.0	1.5	2.0	.	1.0	.	1.6
AG53XF2	2.0	.	1.8	2.0	3.0	1.0	.	4.0	.	2.4
AG54XF0	3.5	.	1.8	3.0	2.5	1.0	.	1.5	.	2.2
TN21-4659	2.0	.	1.5	2.0	2.0	2.0	.	1.5	.	1.8
DS184-11	2.0	.	1.2	2.0	4.5	2.0	.	1.5	.	2.2
K179228-5 HO	2.0	.	1.5	2.0	4.5	2.0	.	1.5	.	2.3
K22-5032	2.5	.	2.0	3.0	1.0	2.0	.	2.0	.	2.0
K22-5638	2.0	.	1.5	2.0	2.0	2.0	.	2.0	.	1.9
K22-6614	2.0	.	1.8	1.0	3.0	1.0	.	2.0	.	1.9
K22-6898	2.0	.	1.5	3.0	2.0	2.0	.	2.0	.	2.0
K22-8309 GT HO	3.5	.	2.0	2.0	2.0	2.0	.	2.5	.	2.4
N11-7620	4.0	.	1.8	3.0	3.5	2.0	.	1.0	.	2.5
N16-7526	2.0	.	1.8	2.0	3.0	2.0	.	1.5	.	2.0
N19-0238	1.5	.	1.5	2.0	2.5	2.0	.	1.5	.	1.8
N19-0318	2.5	.	1.5	2.0	3.0	1.0	.	1.0	.	1.9
R20-1429	2.0	.	1.8	1.0	2.0	1.0	.	1.0	.	1.5
R23PR-00067E	2.5	.	3.0	3.0	2.5	3.0	.	2.0	.	2.6
TN21-5050	2.5	.	2.0	2.0	3.5	1.0	.	3.0	.	2.5
TN22-5024LL	3.0	.	1.5	2.0	2.5	2.0	.	2.0	.	2.2
TN22-5028N	3.0	.	1.5	2.0	2.0	2.0	.	1.5	.	2.0
V18-0178TI	3.0	.	2.0	2.0	3.5	2.0	.	2.0	.	2.5
V21-1438	1.5	.	1.5	1.0	3.5	2.0	.	2.0	.	2.0
V21-2521LL	2.5	.	2.0	2.0	1.5	2.0	.	2.0	.	2.0
V21-2543LL	3.0	.	1.5	2.0	3.0	2.0	.	1.0	.	2.1
V21-4034R1	1.5	.	2.0	2.0	1.5	1.0	.	1.0	.	1.4
Mean	2.4	.	1.7	2.1	2.6	1.8	.	1.8	.	2.1
LSD(0.05)	1.7	.	0.6	.	2.1	.	.	0.8	.	0.8
CV(%)	33.9	.	15.5	.	38.2	.	.	22.7	.	37.5

**TABLE 84 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP V-EARLY 2025**

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	11.0	13.4	15.4	15.5	12.3	16.7	.	14.7	.	14.1
AG53XF2	13.9	14.7	17.3	17.7	11.9	17.8	.	15.5	.	15.5
AG54XF0	16.2	14.3	16.1	16.3	11.4	17.3	.	13.8	.	15.0
TN21-4659	9.8	12.5	12.9	13.1	12.3	14.0	.	12.2	.	12.4
DS184-11	11.4	11.1	13.6	15.4	15.0	14.0	.	13.3	.	13.4
K179228-5 HO	12.1	14.3	15.1	15.5	14.1	15.3	.	14.5	.	14.4
K22-5032	10.8	12.4	13.4	13.4	10.9	15.4	.	13.4	.	12.8
K22-5638	10.7	12.1	12.2	13.8	11.9	14.3	.	13.7	.	12.6
K22-6614	10.3	12.7	12.4	13.8	11.2	15.0	.	14.2	.	12.8
K22-6898	10.9	13.2	12.8	14.0	12.5	16.3	.	13.9	.	13.3
K22-8309 GT HO	9.4	11.5	11.7	14.0	12.3	14.7	.	14.0	.	12.4
N11-7620	12.7	12.6	13.4	14.2	13.1	15.0	.	11.5	.	13.2
N16-7526	12.1	15.0	16.2	15.7	11.2	16.7	.	14.9	.	14.5
N19-0238	12.3	15.0	13.8	15.5	12.1	16.6	.	17.4	.	14.6
N19-0318	13.4	14.8	13.9	14.5	11.2	16.6	.	14.2	.	14.1
R20-1429	9.9	12.3	12.6	12.9	11.0	13.4	.	13.4	.	12.2
R23PR-00067E	13.2	12.9	14.5	14.7	13.5	15.7	.	13.3	.	13.9
TN21-5050	12.5	15.2	15.0	15.2	12.4	17.3	.	16.1	.	14.8
TN22-5024LL	10.1	11.5	12.5	12.7	12.1	14.1	.	12.4	.	12.2
TN22-5028N	9.8	10.3	11.5	11.3	13.7	12.6	.	12.0	.	11.7
V18-0178TI	11.7	12.1	12.8	13.6	12.5	15.5	.	14.9	.	13.3
V21-1438	11.1	11.2	11.1	13.8	12.9	14.1	.	14.6	.	12.8
V21-2521LL	11.1	13.5	11.4	13.4	12.9	15.6	.	16.3	.	13.6
V21-2543LL	12.5	16.0	15.1	16.3	13.1	16.6	.	18.3	.	15.4
V21-4034R1	10.3	13.5	11.2	14.1	12.4	14.3	.	13.4	.	12.8
Mean	11.6	13.1	13.5	14.4	12.4	15.4	.	14.2	.	13.5
LSD(0.05)	2.4	1.4	2.5	.	2.7	.	.	1.0	.	1.2
CV(%)	9.9	5.0	7.7	.	10.7	.	.	3.5	.	9.2

TABLE 85 - OIL (%)†
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	.	20.4	.	18.6	19.6	19.7	19.5	19.6	.	19.6
AG53XF2	.	19.6	.	18.8	17.8	20.2	.	19.5	.	19.3
AG54XF0	.	19.3	.	18.4	19.0	20.1	19.0	18.7	.	19.1
TN21-4659	.	19.4	.	17.9	19.7	19.7	19.8	19.2	.	19.3
DS184-11	.	17.5	.	15.9	20.5	17.6	17.7	17.8	.	17.8
K179228-5 HO	.	20.0	.	18.8	19.7	19.6	20.2	19.9	.	19.7
K22-5032	.	19.0	.	17.7	19.2	18.9	19.0	19.5	.	18.9
K22-5638	.	19.2	.	18.3	17.9	19.2	19.5	18.3	.	18.7
K22-6614	.	18.2	.	17.3	19.3	19.0	18.1	18.0	.	18.3
K22-6898	.	18.4	.	17.5	19.2	19.4	18.4	18.1	.	18.5
K22-8309 GT HO	.	19.9	.	18.7	19.0	20.8	20.5	19.6	.	19.8
N11-7620	.	18.4	.	16.6	19.2	18.6	19.1	18.1	.	18.3
N16-7526	.	19.0	.	17.3	18.6	20.3	19.4	19.3	.	19.0
N19-0238	.	18.5	.	18.0	18.9	19.4	18.5	18.6	.	18.6
N19-0318	.	19.0	.	16.3	18.9	18.1	18.4	17.2	.	18.0
R20-1429	.	19.4	.	17.8	17.9	20.4	20.6	19.6	.	19.3
R23PR-00067E	.	17.9	.	16.3	18.9	18.6	18.4	17.6	.	17.9
TN21-5050	.	20.3	.	19.0	19.0	20.4	19.5	19.1	.	19.6
TN22-5024LL	.	19.7	.	18.5	18.2	20.2	19.4	19.9	.	19.3
TN22-5028N	.	19.2	.	17.9	19.3	19.8	19.5	18.9	.	19.1
V18-0178TI	.	20.0	.	18.4	17.9	20.2	20.8	19.8	.	19.5
V21-1438	.	19.4	.	18.5	20.1	20.5	19.4	18.9	.	19.5
V21-2521LL	.	20.7	.	18.9	19.0	20.3	20.0	19.0	.	19.6
V21-2543LL	.	19.5	.	18.4	20.5	20.2	19.8	19.3	.	19.6
V21-4034R1	.	20.3	.	18.8	18.1	20.2	20.7	19.4	.	19.6
Mean	.	19.3	.	17.9	19.0	19.7	19.4	18.9	.	19.0
LSD(0.05)	.	.	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	.	.	3.2

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

TABLE 86 - PROTEIN (%)†
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	.	32.4	.	33.7	36.1	34.2	34.8	35.1	.	34.4
AG53XF2	.	34.1	.	33.6	38.0	32.4	.	35.2	.	34.6
AG54XF0	.	32.9	.	35.0	36.1	34.1	35.6	36.7	.	35.1
TN21-4659	.	34.2	.	34.5	36.4	33.4	34.0	35.7	.	34.7
DS184-11	.	35.7	.	37.7	38.9	35.2	37.0	36.1	.	36.8
K179228-5 HO	.	35.2	.	35.2	38.3	36.4	36.2	37.8	.	36.5
K22-5032	.	37.2	.	37.8	35.2	37.4	37.2	37.1	.	37.0
K22-5638	.	35.0	.	34.8	37.0	34.3	34.6	37.5	.	35.5
K22-6614	.	37.0	.	37.5	36.3	35.9	37.7	38.3	.	37.1
K22-6898	.	35.9	.	36.0	35.8	34.5	36.9	37.6	.	36.1
K22-8309 GT HO	.	33.2	.	35.0	36.0	33.2	35.6	37.4	.	35.1
N11-7620	.	34.3	.	38.0	36.1	35.1	34.7	35.7	.	35.6
N16-7526	.	35.2	.	37.5	37.6	32.3	35.5	35.7	.	35.6
N19-0238	.	35.7	.	36.6	37.0	35.0	36.8	37.9	.	36.5
N19-0318	.	38.4	.	41.2	37.7	39.6	39.6	41.9	.	39.7
R20-1429	.	34.5	.	35.0	36.9	33.1	33.8	35.2	.	34.7
R23PR-00067E	.	36.6	.	37.4	37.2	33.9	36.0	37.9	.	36.5
TN21-5050	.	33.6	.	34.7	40.7	34.2	34.2	35.4	.	35.5
TN22-5024LL	.	33.3	.	34.5	38.6	32.4	34.8	33.7	.	34.5
TN22-5028N	.	33.9	.	35.5	37.1	34.3	35.1	35.9	.	35.3
V18-0178TI	.	34.8	.	36.8	37.8	34.4	36.7	37.5	.	36.3
V21-1438	.	35.3	.	36.2	38.9	33.9	36.8	38.2	.	36.6
V21-2521LL	.	33.8	.	35.4	37.3	34.3	36.1	37.0	.	35.6
V21-2543LL	.	35.5	.	34.9	38.1	33.9	36.0	37.4	.	36.0
V21-4034R1	.	32.9	.	34.4	38.6	33.2	33.4	35.0	.	34.6
Mean	.	34.8	.	36.0	37.3	34.4	35.8	36.8	.	35.8
LSD(0.05)	.	.	.	.	.	.	.	.	.	1.3
CV(%)	.	.	.	.	.	.	.	.	.	3.1

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

TABLE 87 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Manhattan, KS	Marianna, AR	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	.	44.2	.	45.1	48.8	46.2	47.0	47.5	.	46.5
AG53XF2	.	46.1	.	45.1	50.2	44.1	.	47.5	.	46.6
AG54XF0	.	44.3	.	46.6	48.4	46.4	47.8	49.1	.	47.1
TN21-4659	.	46.1	.	45.6	49.3	45.2	46.1	48.0	.	46.7
DS184-11	.	47.0	.	48.7	53.2	46.4	48.8	47.7	.	48.6
K179228-5 HO	.	47.8	.	47.1	51.8	49.3	49.3	51.3	.	49.4
K22-5032	.	49.9	.	49.9	47.4	50.0	49.9	50.1	.	49.5
K22-5638	.	47.1	.	46.2	49.0	46.2	46.7	49.9	.	47.5
K22-6614	.	49.2	.	49.3	48.9	48.1	50.0	50.8	.	49.4
K22-6898	.	47.8	.	47.4	48.2	46.5	49.2	49.9	.	48.2
K22-8309 GT HO	.	45.1	.	46.8	48.3	45.5	48.7	50.6	.	47.5
N11-7620	.	45.7	.	49.5	48.6	46.8	46.7	47.4	.	47.4
N16-7526	.	47.2	.	49.2	50.2	44.0	47.9	48.1	.	47.8
N19-0238	.	47.6	.	48.5	49.6	47.2	49.1	50.6	.	48.7
N19-0318	.	51.5	.	53.6	50.5	52.5	52.8	55.0	.	52.7
R20-1429	.	46.5	.	46.3	48.9	45.2	46.2	47.6	.	46.8
R23PR-00067E	.	48.5	.	48.6	49.9	45.2	48.0	50.0	.	48.3
TN21-5050	.	45.8	.	46.6	54.6	46.7	46.2	47.6	.	47.9
TN22-5024LL	.	45.1	.	45.9	51.3	44.1	47.0	45.7	.	46.5
TN22-5028N	.	45.6	.	47.0	50.0	46.4	47.4	48.1	.	47.4
V18-0178TI	.	47.3	.	49.1	50.0	46.8	50.3	50.8	.	49.1
V21-1438	.	47.6	.	48.2	52.9	46.4	49.7	51.2	.	49.3
V21-2521LL	.	46.3	.	47.5	50.1	46.7	49.0	49.7	.	48.2
V21-2543LL	.	47.9	.	46.5	52.1	46.2	48.8	50.4	.	48.6
V21-4034R1	.	44.9	.	46.1	51.2	45.3	45.8	47.2	.	46.7
Mean	.	46.9	.	47.6	50.1	46.5	48.3	49.3	.	48.1
LSD(0.05)	.	.	.	.	.	.	.	.	.	1.5
CV(%)	.	.	.	.	.	.	.	.	.	2.7

† Estimated meal protein percentage is reported on a 13% moisture basis.

SUMMARY OF SEED FATTY ACIDS (%)
PRELIMINARY TEST V-EARLY 2025 †

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
S16-14869	11.7	3.5	22.0	55.6	7.1
AG53XF2	10.4	4.4	24.0	54.0	7.2
K179228-5 HO	7.3	3.4	80.2	4.7	4.5
K22-8309 GT HO	8.2	3.3	79.6	3.7	5.2
TN22-5024LL	11.4	3.9	28.0	53.4	3.2
Mean	9.8	3.7	46.8	34.3	5.4
LSD(0.05)	0.4	0.5	3.0	2.5	0.8
CV(%)	3.3	10.1	5.5	6.1	12.9

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

SEED PALMITIC ACID (%)
PRELIMINARY GROUP V-EARLY 2024

STRAIN/ VARIETY	Kinston, NC	Knoxville, TN	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	7.4	6.8	6.6	6.3	7.6	7.8	7.1
AG53XF2	7.5	7.7	7.5	6.9	5.9	7.8	7.2
K179228-5 HO	4.6	5.0	4.6	3.2	4.1	5.3	4.5
K22-8309 GT HO	6.0	6.7	5.2	3.1	3.7	6.7	5.3
TN22-5024LL	3.6	3.1	2.8	3.1	3.4	3.0	3.1
Mean	5.8	5.9	5.3	4.5	5.3	6.1	5.4
LSD(0.05)	.	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	.	12.6

SEED STEARIC ACID (%)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Kinston, NC	Knoxville, TN	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	7.4	6.8	6.6	6.3	7.6	7.8	7.1
AG53XF2	7.5	7.7	7.5	6.9	5.9	7.8	7.2
K179228-5 HO	4.6	5.0	4.6	3.2	4.1	5.3	4.5
K22-8309 GT HO	6.0	6.7	5.2	3.1	3.7	6.7	5.3
TN22-5024LL	3.6	3.1	2.8	3.1	3.4	3.0	3.1
Mean	5.8	5.9	5.3	4.5	5.3	6.1	5.4
LSD(0.05)	.	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	.	12.6

SEED OLEIC ACID (%)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Kinston, NC	Knoxville, TN	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	22.1	23.2	22.9	20.8	18.5	24.6	22.0
AG53XF2	25.0	23.7	25.2	20.0	26.3	23.8	24.0
K179228-5 HO	78.7	79.6	79.1	82.9	82.5	78.3	80.2
K22-8309 GT HO	77.4	78.0	77.9	84.5	83.4	76.1	79.6
TN22-5024LL	26.0	26.3	26.6	26.3	32.4	30.4	28.0
Mean	45.8	46.2	46.3	46.9	52.7	46.6	46.8
LSD(0.05)	.	.	.	.	.	.	3.0
CV(%)	.	.	.	.	.	.	5.5

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Kinston, NC	Knoxville, TN	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	55.6	54.2	53.6	57.6	59.8	53.0	55.6
AG53XF2	52.8	53.4	51.3	58.8	54.0	53.5	54.0
K179228-5 HO	5.5	4.9	5.0	3.3	3.4	5.8	4.7
K22-8309 GT HO	4.0	3.9	4.7	1.6	2.5	5.4	3.7
TN22-5024LL	54.7	55.2	54.4	55.2	49.6	51.6	53.4
Mean	34.5	34.3	33.8	35.3	29.9	33.9	34.3
LSD(0.05)	.	.	.	.	.	.	2.5
CV(%)	.	.	.	.	.	.	6.1

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP V-EARLY 2025

STRAIN/ VARIETY	Kinston, NC	Knoxville, TN	Pittsburg, KS	Stoneville, MS	Stuttgart, AR	Warsaw, VA	Test Mean
S16-14869	7.4	6.8	6.6	6.3	7.6	7.8	7.1
AG53XF2	7.5	7.7	7.5	6.9	5.9	7.8	7.2
K179228-5 HO	4.6	5.0	4.6	3.2	4.1	5.3	4.5
K22-8309 GT HO	6.0	6.7	5.2	3.1	3.7	6.7	5.3
TN22-5024LL	3.6	3.1	2.8	3.1	3.4	3.0	3.1
Mean	5.8	5.9	5.3	4.5	5.3	6.1	5.4
LSD(0.05)	.	.	.	.	.	.	0.8
CV(%)	.	.	.	.	.	.	12.6

TABLE 88 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP V-LATE 2025

<i>Ent</i>	<i>Strain/Variety</i>	<i>Parentage</i>	<i>Source</i>	<i>Fn</i>	<i>Trans- genic†</i>	<i>Special Traits‡</i>
1	AG54XF0	Commercial check	check		XF	
2	TN11-5140	Commercial check	check		Conv	
3	AG56XF2	Commercial check	check		XF	
4	N19-0117	G00-3213 x HR10-2-559	Mian		Conv	High yield, high meal protein
5	N21-0559	N09-13890 x GA SF 114 QTL	Fallen		Conv	
6	V21-1041	S13-1805 x R11-328	Zhang		Conv	
7	V21-1427	V14-0079 x R12-226	Zhang		Conv	
8	V21-2059DIR1	V12-1416 x V14-0780	Zhang		RR1	25% exotic

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®, RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®
‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

**TABLE 89 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST V-LATE 2025**

STRAIN/ VARIETY	SEED YIELD†	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
							Race 2	Race 3	Race 5		
AG54XF0	60.2	3	3	0	1.7	34	2.8	.	4.2	R	1
TN11-5140	47.2	8	6	-1	1.9	24	.	.	.	R	1
AG56XF2	60.1	5	3	-9	1.4	27	1.8	.	3.0	R	1
N19-0117	51.5	7	6	-9	1.4	23	1.2	.	3.5	S	5
N21-0559	52.6	6	6	1	2.1	31	1.8	.	4.6	R	1
V21-1041	62.0	1	5	-11	1.6	25	3.4	.	4.3	MS	4
V21-1427	60.4	2	4	-9	1.2	21	2.0	.	3.8	S	5
V21-2059DIR1	60.1	4	4	-3	1.5	29	2.8	.	3.0	S	5
Mean	56.8	.	.	-5	1.6	27	.	.	.		.
LSD(0.05)	11.2	.	.	9	0.5	4	.	.	.		.
LSD(0.10)	9.3	.	.	.	.	.	.	.	.		.
CV(%)	14.5	.	.	98	25.5	14	.	.	.		.

†Data not included in the mean due to CV >15%: Jackson.

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

TABLE 90 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST V-LATE 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
AG54XF0	2.0	14.6	34.2	19.9	46.4	P	Lt	Tn
TN11-5140	1.7	14.1	34.5	20.0	46.9	W		
AG56XF2	1.5	13.7	34.3	19.4	46.2	W	Tw	Tn
N19-0117	1.9	14.4	34.5	20.4	47.1	S	T	
N21-0559	2.1	14.4	36.2	18.9	48.6	P	T	
V21-1041	1.7	13.3	35.6	18.8	47.6	P	Lt	
V21-1427	1.7	11.4	35.6	19.6	48.1	P	T	
V21-2059DIR1	2.2	13.5	34.7	19.7	46.9	W	Lt	
Mean	1.9	13.7	34.9	19.6	47.2			
LSD(0.05)	0.9	2.1	2.7	1.5	3.5			
LSD(0.10)								
CV(%)	26.5	9.9	3.0	3.0	2.9			

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

TABLE 91 - SEED YIELD (BUSHEL PER ACRE)
PRELIMINARY GROUP V-LATE 2025 †

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	26.7	50.0	42.8	68.9	79.2	60.2
TN11-5140	25.1	47.3	16.7		66.2	47.2
AG56XF2	24.5	47.6	36.9	74.6	81.8	60.1
N19-0117	22.6	44.8	31.3	58.8	71.0	51.5
N21-0559	25.7	42.1	30.3	67.9	70.1	52.6
V21-1041	22.5	40.6	30.0	82.4	95.0	62.0
V21-1427	29.9	44.9	31.3	66.8	98.5	60.4
V21-2059DIR1	28.9	43.7	39.1	68.2	89.4	60.1
Mean	25.7	45.1	32.3	69.7	81.4	56.8
LSD(0.05)	12.2	8.2	6.9	21.5	7.1	11.2
LSD(0.10)	9.7	6.6	5.5	17.1	5.7	9.3
CV(%)	18.9	7.9	8.5	12.6	3.8	14.5

† Data not included in the test mean due to CV > 15%: Jackson.

**TABLE 92 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP V-LATE 2025**

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	10/20	.	10/16	10/2	.	10/13
TN11-5140	1	.	1	.	.	-1
AG56XF2	-16	.	-1	-12	.	-9
N19-0117	-16	.	-1	-12	.	-9
N21-0559	4	.	0	0	.	1
V21-1041	-16	.	-1	-18	.	-11
V21-1427	-11	.	0	-16	.	-9
V21-2059DIR1	-2	.	0	-8	.	-3
Mean	-7	.	0	-9	.	-5
LSD(0.05)	11	.	2	1	.	9
CV(%)	.	.	.	.	.	.

TABLE 93 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	30	25	30	25	57	34
TN11-5140	17	27	20	.	41	24
AG56XF2	21	19	22	22	49	27
N19-0117	17	24	20	16	38	23
N21-0559	29	36	29	18	47	31
V21-1041	19	25	19	20	44	25
V21-1427	15	19	18	13	41	21
V21-2059DIR1	26	33	25	19	45	29
Mean	22	26	23	19	45	27
LSD(0.05)	7	.	4	2	6	4
CV(%)	14	.	7	5	6	14

TABLE 94 - PLANT LODGING (1-5)
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	1.0	1.5	2.0	1.0	3.0	1.7
TN11-5140	1.0	1.0	2.5	.	3.5	1.9
AG56XF2	1.0	1.0	2.0	1.0	2.0	1
N19-0117	1.0	1.0	2.0	1.0	2.0	1.4
N21-0559	1.0	1.8	3.3	1.0	3.5	2.1
V21-1041	1.0	1.0	2.0	1.0	3.0	1.6
V21-1427	1.0	1.0	1.5	1.0	1.5	1.2
V21-2059DIR1	1.0	1.0	2.0	1.0	2.5	1.5
Mean	1.0	1.2	2.2	1.0	2.6	1.6
LSD(0.05)	.	0.3	0.6	.	1.2	0.5
CV(%)	.	10.8	12.2	.	19.0	25.5

TABLE 95 - SEED QUALITY (1-5)
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	2.5	.	1.5	.	.	2.0
TN11-5140	2.0	.	1.5	.	.	1.7
AG56XF2	2.0	.	1.0	.	.	1.5
N19-0117	2.0	.	1.8	.	.	1.9
N21-0559	3.0	.	1.3	.	.	2.1
V21-1041	2.0	.	1.5	.	.	1.7
V21-1427	2.0	.	1.5	.	.	1.7
V21-2059DIR1	3.0	.	1.5	.	.	2.2
Mean	2.3	.	1.4	.	.	1.9
LSD(0.05)	1.2	.	0.8	.	.	0.9
CV(%)	22.8	.	22.8	.	.	26.5

TABLE 96 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	13.6	15.1	15.0	.	.	14.6
TN11-5140	15.0	14.2	13.1	.	.	14.1
AG56XF2	12.6	14.9	13.7	.	.	13.7
N19-0117	13.6	15.7	14.1	.	.	14.4
N21-0559	17.0	13.2	13.2	.	.	14.4
V21-1041	12.5	14.1	13.2	.	.	13.3
V21-1427	11.9	11.2	11.0	.	.	11.4
V21-2059DIR1	14.2	14.3	12.1	.	.	13.5
Mean	13.8	14.1	13.2	.	.	13.7
LSD(0.05)	3.6	0.4	0.6	.	.	2.1
CV(%)	11.4	1.2	1.9	.	.	9.9

TABLE 97 - OIL (%)†
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	.	20.9	.	18.8	.	19.9
TN11-5140	.	20.5	.	19.5	.	20.0
AG56XF2	.	19.2	.	19.6	.	19.4
N19-0117	.	20.4	.	20.3	.	20.4
N21-0559	.	19.2	.	18.7	.	18.9
V21-1041	.	19.1	.	.	.	18.8
V21-1427	.	19.7	.	19.5	.	19.6
V21-2059DIR1	.	20.3	.	19.1	.	19.7
Mean	.	19.9	.	19.4	.	19.6
LSD(0.05)	.	.	.	.	.	1.5
CV(%)	.	.	.	.	.	3.0

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

TABLE 98 - PROTEIN (%)†
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	.	32.9	.	35.6	.	34.2
TN11-5140	.	33.1	.	35.9	.	34.5
AG56XF2	.	33.7	.	34.8	.	34.3
N19-0117	.	33.5	.	35.6	.	34.5
N21-0559	.	36.9	.	35.6	.	36.2
V21-1041	.	34.8	.	.	.	35.6
V21-1427	.	34.2	.	37.0	.	35.6
V21-2059DIR1	.	33.7	.	35.6	.	34.7
Mean	.	34.1	.	35.7	.	34.9
LSD(0.05)	.	.	.	.	.	2.7
CV(%)	.	.	.	.	.	3.0

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

TABLE 99 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP V-LATE 2025

STRAIN/ VARIETY	Jackson, TN	Kinston, NC	Knoxville, TN	Stoneville, MS	Warsaw, VA	Test Mean
AG54XF0	.	45.2	.	47.6	.	46.4
TN11-5140	.	45.3	.	48.5	.	46.9
AG56XF2	.	45.3	.	47.1	.	46.2
N19-0117	.	45.7	.	48.5	.	47.1
N21-0559	.	49.6	.	47.5	.	48.6
V21-1041	.	46.8	.	.	.	47.6
V21-1427	.	46.3	.	49.9	.	48.1
V21-2059DIR1	.	46.0	.	47.8	.	46.9
Mean	.	46.3	.	48.1	.	47.2
LSD(0.05)	.	.	.	.	.	3.5
CV(%)	.	.	.	.	.	2.9

† Estimated meal protein percentage is reported on a 13% moisture basis.

TABLE 100 - PARENTAGE OF ENTRIES
UNIFORM GROUP VI 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	AG66XF2	Commercial check	check		XF	
2	G16-8779	Commercial check	check		Conv	
3	NC-Dilday	Commercial check	check		Conv	
4	P68A07SX	Commercial check	check		RR2X	
5	G18-12342	Woodruff x Benning HP	Zenglu Li		Conv	
6	G20-6094R2	G13-2114R2(4)xG00-3880HOXG13-2114R2(4)xG00-3880LLn-B3	Zenglu Li		RR2	HOLN
7	G20-9640	G13-6299 X G11-7013	Zenglu Li		Conv	
8	G20-9840	G14-6102 X S09-13185	Zenglu Li		Conv	
9	G21-2407	G12-6543 X Benning EMGH	Zenglu Li		Conv	Insect resistance
10	G21-2534	G17PR-1223HOLL X G17PR-1349HOLL	Zenglu Li		Conv	
11	G21-3387	G12-6386 X N10-711	Zenglu Li		Conv	
12	G21-3656	G12-6386 X N10-764	Zenglu Li		Conv	
13	G21-4523	G13-6299 X N10-711	Zenglu Li		Conv	
14	G21-5990	G12-6543 X 9581	Zenglu Li		Conv	
15	G21-6812	G17PR-1223HOLL X [N05-7432 X Benning HP]	Zenglu Li		Conv	HOLN, High Protein
16	N10-7412	NTCPR94-5157 x 93705-50	Fallen		Conv	Drought Tol.
17	N11-10295	N01-11298 x N04-9646	Fallen		Conv	12.5% exotic
18	N16-10756	NMS4-44-329 x N7103	Fallen		Conv	25% exotic
19	N16-10889	NC-Roy X N01-11771	Fallen		Conv	Drought Tol.
20	N19-0115	G00-3213 x HR10-2-559	Mian		Conv	High meal, High yield
21	N19-0756	S13-1805 x N08-174	Mian		Conv	High oil, High yield
22	N19-0806	G00-3213 x R11-7999	Mian		Conv	High meal, High yield
23	N19-0818	G00-3213 x R11-7999	Mian		Conv	High meal, High yield
24	N19-0829	G00-3213 x R11-7999	Mian		Conv	High meal protein
25	N19-1253	TN08-100 x NC-Dunphy	Mian		Conv	High meal, High yield
26	N19-1468	G11-7013 x NC-Dunphy	Mian		Conv	High meal, High yield
27	N23-6058	MUSEN x N10-7277	Fallen		Conv	

† Conv= Conventional(non-transgenic),DIC - Dicamba resistance Xtend®, E3= Enlist E3®, LL=Liberty Link®, RR1=Roundup Ready®, RR2=Roundup Ready 2 Yield®,

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 101 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST VI 2025

STRAIN/ VARIETY	AVG.		YIELD†			PROTEIN‡			OIL‡		
	RANK	RANK	2025	24-24	23-25	2025	24-25	23-25	2025	24-25	23-25
AG66XF2	1	6	64.6	58.0	.	33.5	33.8	.	19.7	19.7	.
G16-8779	24	19	56.8	.	54.8	34.1	.	34.8	19.0	.	18.7
NC-Dilday	17	14	59.3	52.2	52.4	33.8	33.9	34.2	19.7	19.8	19.7
P68A07SX	12	13	60.7	55.9	57.4	33.9	34.0	34.5	19.0	19.1	18.8
G18-12342	7	12	62.2	.	.	36.8	.	.	19.1	.	.
G20-6094R2	9	11	61.9	58.0	.	36.7	36.1	.	18.3	18.8	.
G20-9640	6	13	62.2	53.4	.	35.8	35.6	.	19.5	19.5	.
G20-9840	2	10	64.4	55.9	.	34.1	33.9	.	20.3	20.4	.
G21-2407	14	15	59.8	.	.	35.7	.	.	19.5	.	.
G21-2534	16	15	59.4	54.7	.	36.4	35.9	.	19.7	19.7	.
G21-3387	15	14	59.4	.	.	35.8	.	.	19.3	.	.
G21-3656	26	15	55.5	.	.	35.7	.	.	19.2	.	.
G21-4523	5	8	62.7	.	.	34.8	.	.	18.7	.	.
G21-5990	23	19	56.9	.	.	35.0	.	.	19.9	.	.
G21-6812	27	25	51.3	.	.	39.9	.	.	18.4	.	.
N10-7412	18	19	58.4	51.7	51.4	34.2	34.4	35.0	19.5	19.5	19.3
N11-10295	25	18	55.5	51.1	49.8	36.0	35.6	36.3	18.4	18.7	18.3
N16-10756	10	14	61.1	54.1	53.1	35.8	36.1	36.6	18.5	18.5	18.2
N16-10889	21	17	57.4	52.5	.	35.6	35.4	.	18.6	18.8	.
N19-0115	22	14	57.2	51.7	51.6	37.2	37.2	37.6	19.2	19.3	19.1
N19-0756	13	13	60.1	56.0	55.1	34.2	34.2	34.5	20.0	20.1	19.9
N19-0806	20	17	57.6	52.4	52.6	36.5	36.8	37.3	18.9	18.9	18.6
N19-0818	8	10	61.9	54.6	53.7	37.6	37.9	38.3	18.3	18.3	18.1
N19-0829	19	15	57.9	.	.	36.2	.	.	18.8	.	.
N19-1253	4	9	63.9	55.4	55.1	35.3	35.3	35.7	19.3	19.4	19.3
N19-1468	3	10	64.3	56.5	56.4	33.8	34.0	34.7	20.2	20.1	19.9
N23-6058	11	13	60.8	.	.	36.1	.	.	17.7	.	.
Mean	.	.	59.7	.	.	35.6	.	.	19.1	.	.
LSD(0.05)	.	.	7.7	.	.	1.0	.	.	0.7	.	.
LSD(0.10)	.	.	6.4	.	.	.	.	.	.	.	.
CV(%)	.	.	12.6	.	.	2.2	.	.	2.9	.	.

† Data not included in yield mean: 2023 Bossier City.

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

TABLE 102 - GENERAL SUMMARY OF PERFORMANCE -Part 2
UNIFORM TEST VI 2025

STRAIN/ VARIETY	MEAL† PRO %	MAT INDEX	LOD	HT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
AG66XF2	45.3	0	1.3	36	1.7	14.1	Lt	Tn	
G16-8779	45.7	-1	1.2	32	1.7	15.7			
NC-Dilday	45.8	-3	1.7	35	2.3	17.5			
P68A07SX	45.6	-4	1.5	39	1.4	13.9			
G18-12342	49.4	6	1.8	44	1.6	15.2	W	T	T
G20-6094R2	48.7	2	1.3	37	1.6	15.3	P	T	T
G20-9640	48.3	1	2.1	40	1.8	14.0	W	T	T
G20-9840	46.5	-6	1.1	36	1.4	15.4	W	T	T
G21-2407	48.2	3	1.8	40	1.6	14.7	P	T	T
G21-2534	49.3	2	1.6	35	1.7	14.7	W	T	T
G21-3387	48.1	2	1.7	37	1.5	16.1	W	T	T
G21-3656	48.0	2	1.5	35	2.2	17.4	W	T	T
G21-4523	46.6	4	1.7	36	1.8	15.1	P	T	T
G21-5990	47.5	4	2.1	41	1.3	15.1	W	T	T
G21-6812	53.1	-3	1.9	37	1.3	15.0	P	G	T
N10-7412	46.2	-1	1.9	37	1.4	14.7	P	T	
N11-10295	47.9	-2	2.2	41	1.4	13.1	W	G	
N16-10756	47.7	-7	2.6	37	1.3	13.1	W	G	
N16-10889	47.5	-4	2.5	34	1.7	11.9	P	G	
N19-0115	50.0	0	1.5	29	1.7	16.6	W	T	
N19-0756	46.4	-3	1.2	31	1.9	15.9	W	T	
N19-0806	49.0	2	1.4	34	1.8	15.7	W	T	
N19-0818	50.0	1	1.3	38	1.4	15.1	P	T	
N19-0829	48.4	3	1.7	39	1.4	16.2	P	T	
N19-1253	47.6	-4	1.2	31	1.8	17.3	P	G	
N19-1468	46.0	2	1.9	35	1.5	14.5	P	T	
N23-6058	47.7	1	2.0	40	1.7	15.1	W	G	
Mean	47.8	0	1.7	37	1.6	15.1			
LSD(0.05)	1.0	7	0.5	3	0.7	1.0			
CV(%)	1.7	2094	29.0	9	30.0	6.0			

† Estimated meal protein content was added to the annual report in 2018.

**TABLE 103 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST VI 2025**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			RKN Gall Score (1-5 Scale)‡			SC RATING	SC SCORE
	Race 2	Race 3	Race 5	PRK	SRK	JRK		
AG66XF2	4.8	.	3.4	4.0	1.0	4.8	R	1
G16-8779	4.8	.	1.8	3.5	2.3	4.0	S	5
NC-Dilday	4.6	.	2.5	4.8	2.5	5.0	R	1
P68A07SX	4.8	.	3.0	2.5	1.5	2.8	R	1
G18-12342	3.0	.	3.2	5.0	1.8	5.0	MS	4
G20-6094R2	3.4	.	2.8	3.0	2.3	4.3	R	1
G20-9640	4.0	.	1.8	3.8	1.3	3.3	R	1
G20-9840	3.4	.	2.2	5.0	2.5	5.0	R	1
G21-2407	5.0	.	4.2	3.0	1.5	3.0	R	1
G21-2534	5.0	.	4.6	3.8	1.3	2.0	S	5
G21-3387	5.0	.	3.8	4.8	1.3	5.0	R	1
G21-3656	4.6	.	4.0	5.0	2.3	4.5	MR	2
G21-4523	4.6	.	4.0	3.0	1.3	4.3	S	5
G21-5990	5.0	.	3.4	1.8	1.5	2.5	S	5
G21-6812	5.0	.	3.2	4.5	4.3	5.0	SS	3
N10-7412	4.8	.	3.8	3.5	4.3	4.8	R	1
N11-10295	4.4	.	5.0	5.0	5.0	5.0	MR	2
N16-10756	4.5	.	3.8	5.0	4.8	5.0	MS	4
N16-10889	3.8	.	3.7	5.0	4.5	5.0	S	5
N19-0115	.	.	4.0	3.3	2.0	4.8	S	5
N19-0756	2.8	.	2.0	3.0	3.8	5.0	R	1
N19-0806	3.0	.	2.0	4.8	4.3	4.0	S	5
N19-0818	4.0	.	3.3	5.0	4.5	5.0	S	5
N19-0829	3.3	.	2.8	4.8	4.8	5.0	S	5
N19-1253	4.0	.	4.0	5.0	2.3	5.0	R	1
N19-1468	2.5	.	3.5	3.5	1.0	4.8	R	1
N23-6058	4.5	.	4.0	3.3	2.5	4.5	R	1

†The race 2 and 5 SCN populations used in these tests were typed as HG (*Heterodera glycines*)

Type 1.2.5.7 and HG Type 2.5.7, respectively. Results for race 3 were omitted.

‡The root-knot nematode (RKN) species used in these tests were *Meloidogyne incognita* (southern root knot = SRK), *M. arenaria* (peanut root knot = PRK), and *M. javanica* (Javanese root-knot = JRK) MR = mixed reaction.

TABLE 104 - SEED YIELD (BUSHEL PER ACRE)
UNIFORM TEST VI 2025 †

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	83.3	54.8	58.4	78.4	48.3	64.6
G16-8779	75.0	43.7	55.8	68.9	40.4	56.8
NC-Dilday	78.1	54.1	46.3	74.3	43.7	59.3
P68A07SX	68.1	60.1	61.3	74.2	40.0	60.7
G18-12342	72.9	62.4	56.8	74.1	44.7	62.2
G20-6094R2	77.1	56.9	57.7	73.4	44.2	61.9
G20-9640	71.9	69.4	55.7	68.0	46.1	62.2
G20-9840	83.2	66.2	57.9	71.3	43.6	64.4
G21-2407	72.6	60.6	63.4	62.0	40.4	59.8
G21-2534	75.6	49.0	57.4	71.3	43.7	59.4
G21-3387	71.3	54.2	59.1	66.2	46.4	59.4
G21-3656	75.2	28.1	61.8	69.3	43.1	55.5
G21-4523	70.6	55.2	62.1	77.0	48.7	62.7
G21-5990	66.6	55.2	58.2	61.7	42.5	56.9
G21-6812	58.1	48.9	50.2	63.1	35.9	51.3
N10-7412	64.9	65.7	52.0	66.5	43.2	58.4
N11-10295	67.2	58.8	54.1	52.2	45.3	55.5
N16-10756	68.3	64.5	53.1	76.4	43.4	61.1
N16-10889	61.6	53.3	59.8	73.6	38.6	57.4
N19-0115	73.7	37.6	59.9	68.5	46.1	57.2
N19-0756	73.1	51.9	56.9	72.6	46.2	60.1
N19-0806	79.3	40.0	57.1	68.1	43.3	57.6
N19-0818	79.6	51.1	57.4	76.1	45.1	61.9
N19-0829	73.0	42.0	66.3	64.1	44.2	57.9
N19-1253	87.0	56.3	59.4	72.3	44.4	63.9
N19-1468	84.7	65.5	59.7	73.3	38.4	64.3
N23-6058	75.1	58.0	52.6	73.4	44.7	60.8
Mean	73.6	54.2	57.4	70.0	43.5	59.7
LSD(0.05)	11.8	12.3	5.5	7.0	4.6	7.7
LSD(0.10)	9.9	10.2	4.6	5.9	3.9	6.4
CV(%)	9.8	13.8	5.8	6.1	6.5	12.6

†Location data not included in Test Mean due to CV > 15%:

**TABLE 105 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VI 2025**

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Test Mean
AG66XF2	10/21	10/8	10/14
G16-8779	-2	0	-1
NC-Dilday	0	-7	-3
P68A07SX	-1	-7	-4
G18-12342	1	11	6
G20-6094R2	-1	5	2
G20-9640	0	1	1
G20-9840	-3	-10	-6
G21-2407	-1	7	3
G21-2534	0	4	2
G21-3387	0	5	2
G21-3656	1	3	2
G21-4523	0	7	4
G21-5990	0	8	4
G21-6812	-4	-1	-3
N10-7412	-3	0	-1
N11-10295	1	-6	-2
N16-10756	-5	-8	-7
N16-10889	-2	-6	-4
N19-0115	0	-1	0
N19-0756	-1	-4	-3
N19-0806	1	2	2
N19-0818	0	2	1
N19-0829	0	6	3
N19-1253	-1	-7	-4
N19-1468	0	4	2
N23-6058	1	1	1
Mean	-1	0	0
LSD(0.05)	2	6	7
CV(%)	.	1079	.

TABLE 106 - PLANT HEIGHT (INCHES)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	43	21	33	36	49	36
G16-8779	38	18	33	32	42	32
NC-Dilday	43	24	23	38	46	35
P68A07SX	48	24	35	38	49	39
G18-12342	49	28	43	48	56	44
G20-6094R2	44	22	33	38	46	37
G20-9640	48	27	33	39	52	40
G20-9840	44	24	33	38	40	36
G21-2407	47	26	42	38	47	40
G21-2534	42	18	38	36	45	35
G21-3387	42	24	34	37	51	37
G21-3656	41	19	40	35	40	35
G21-4523	42	19	42	35	47	36
G21-5990	50	25	39	40	53	41
G21-6812	43	22	31	42	45	37
N10-7412	44	25	34	36	46	37
N11-10295	51	27	38	43	45	41
N16-10756	43	26	39	36	43	37
N16-10889	39	23	35	34	40	34
N19-0115	39	17	27	26	34	29
N19-0756	42	17	28	29	39	31
N19-0806	38	19	39	33	45	34
N19-0818	44	23	40	35	48	38
N19-0829	44	23	42	37	52	39
N19-1253	38	19	30	30	38	31
N19-1468	44	25	30	33	41	35
N23-6058	48	25	44	37	49	40
Mean	44	23	36	36	46	37
LSD(0.05)	4	5	.	5	.	3
CV(%)	6	13	.	6	.	9

TABLE 107 - PLANT LODGING (1-5)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	1.0	1.0	1.5	1.0	2.2	1.3
G16-8779	1.0	1.0	1.0	1.0	2.0	1.2
NC-Dilday	3.0	1.0	1.3	1.0	2.2	1.7
P68A07SX	2.3	1.0	1.2	1.0	1.7	1.5
G18-12342	2.7	1.0	1.5	2.0	1.7	1.8
G20-6094R2	1.0	1.0	1.8	1.0	2.0	1.3
G20-9640	3.0	1.3	1.8	1.7	2.5	2.1
G20-9840	1.0	1.0	1.0	1.0	1.5	1.1
G21-2407	2.3	1.0	1.5	1.7	2.2	1.8
G21-2534	1.3	1.0	2.3	1.0	2.2	1.6
G21-3387	2.3	1.0	1.8	1.0	2.5	1.7
G21-3656	2.0	1.0	1.8	1.0	2.0	1.5
G21-4523	2.0	1.0	1.8	1.0	2.7	1.7
G21-5990	3.0	1.0	2.0	2.0	2.2	2.1
G21-6812	3.0	1.0	1.5	1.3	2.5	1.9
N10-7412	2.3	1.0	2.0	2.0	2.2	1.9
N11-10295	3.0	1.0	1.3	2.7	3.2	2.2
N16-10756	3.0	1.0	2.3	3.0	3.7	2.6
N16-10889	3.0	1.0	1.8	3.0	3.7	2.5
N19-0115	1.7	1.0	1.3	1.0	2.5	1.5
N19-0756	1.7	1.0	1.0	1.0	1.5	1.2
N19-0806	1.3	1.0	1.5	1.0	2.0	1.4
N19-0818	1.3	1.0	1.3	1.0	1.7	1.3
N19-0829	2.0	1.0	2.0	1.0	2.5	1.7
N19-1253	1.0	1.0	1.3	1.0	1.5	1.2
N19-1468	2.7	1.0	1.5	1.3	3.0	1.9
N23-6058	2.7	1.0	1.5	1.7	3.2	2.0
Mean	2.1	1.0	1.6	1.4	2.4	1.7
LSD(0.05)	0.7	0.2	0.5	0.4	0.5	0.5
CV(%)	21.3	11.0	17.1	19.1	11.1	28.9

TABLE 108 - SEED QUALITY (1-5)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	1.3	2.0	.	1.8	.	1.7
G16-8779	1.3	2.0	.	1.8	.	1.7
NC-Dilday	1.8	2.0	.	3.0	.	2.3
P68A07SX	2.2	1.0	.	1.2	.	1.4
G18-12342	1.8	1.0	.	1.8	.	1.6
G20-6094R2	1.7	1.0	.	2.2	.	1.6
G20-9640	1.8	2.0	.	1.5	.	1.8
G20-9840	1.7	1.0	.	1.7	.	1.4
G21-2407	1.7	2.0	.	1.0	.	1.6
G21-2534	1.8	2.0	.	1.2	.	1.7
G21-3387	1.8	1.0	.	1.7	.	1.5
G21-3656	2.2	2.0	.	2.3	.	2.2
G21-4523	2.2	2.0	.	1.3	.	1.8
G21-5990	1.8	1.0	.	1.0	.	1.3
G21-6812	2.0	1.0	.	1.0	.	1.3
N10-7412	1.8	1.0	.	1.5	.	1.4
N11-10295	1.7	1.0	.	1.5	.	1.4
N16-10756	1.8	1.0	.	1.0	.	1.3
N16-10889	1.8	1.0	.	2.2	.	1.7
N19-0115	1.7	2.0	.	1.5	.	1.7
N19-0756	2.2	1.0	.	2.5	.	1.9
N19-0806	1.5	2.0	.	2.0	.	1.8
N19-0818	1.7	1.0	.	1.5	.	1.4
N19-0829	1.5	1.0	.	1.8	.	1.4
N19-1253	2.0	1.0	.	2.3	.	1.8
N19-1468	1.8	1.0	.	1.7	.	1.5
N23-6058	1.8	2.0	.	1.3	.	1.7
Mean	1.8	1.4	.	1.7	.	1.6
LSD(0.05)	0.6	.	.	0.5	.	0.7
CV(%)	18.7	.	.	17.0	.	29.7

**TABLE 109 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP VI 2025**

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	16.7	13.6	12.0	15.6	12.8	14.1
G16-8779	18.0	17.6	12.3	17.3	13.2	15.7
NC-Dilday	19.5	17.2	15.7	19.5	15.7	17.5
P68A07SX	15.9	13.6	12.8	14.5	12.7	13.9
G18-12342	16.4	14.6	13.1	17.0	14.9	15.2
G20-6094R2	16.8	16.0	12.5	16.9	14.0	15.3
G20-9640	15.7	14.4	11.7	15.0	13.0	14.0
G20-9840	16.6	16.9	12.0	17.1	14.1	15.4
G21-2407	16.1	14.6	12.9	15.8	13.9	14.7
G21-2534	16.7	14.7	11.9	16.2	14.0	14.7
G21-3387	17.0	15.5	14.4	17.4	16.3	16.1
G21-3656	17.9	18.5	14.6	19.8	16.1	17.4
G21-4523	15.9	16.5	12.5	16.3	14.4	15.1
G21-5990	16.4	16.3	13.8	15.0	14.2	15.1
G21-6812	15.8	16.8	12.4	15.5	14.5	15.0
N10-7412	16.7	13.3	13.2	16.1	14.1	14.7
N11-10295	15.3	10.8	11.5	15.4	12.7	13.1
N16-10756	14.5	13.7	11.1	14.6	11.8	13.1
N16-10889	13.4	12.8	10.0	12.7	10.6	11.9
N19-0115	18.0	15.8	13.7	19.4	16.2	16.6
N19-0756	17.6	15.4	13.8	17.6	15.1	15.9
N19-0806	17.0	16.4	12.9	18.2	14.0	15.7
N19-0818	16.8	15.8	13.0	16.2	13.7	15.1
N19-0829	17.1	16.7	14.4	17.5	15.0	16.2
N19-1253	19.4	17.2	13.9	19.2	16.9	17.3
N19-1468	16.1	15.9	13.0	14.4	13.2	14.5
N23-6058	16.8	15.5	12.3	16.6	14.1	15.1
Mean	16.7	15.4	12.8	16.5	14.1	15.1
LSD(0.05)	1.4	.	0.7	1.0	1.1	1.0
CV(%)	5.1	.	2.6	3.7	3.6	6.0

TABLE 110 - OIL (%)†
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	19.0	20.4	20.0	19.7	19.2	19.7
G16-8779	19.0	19.4	19.3	19.1	18.2	19.0
NC-Dilday	19.4	20.1	19.7	20.0	19.5	19.7
P68A07SX	18.6	19.3	19.7	19.1	18.5	19.0
G18-12342	18.8	19.7	19.3	19.8	17.9	19.1
G20-6094R2	18.6	15.0	19.7	19.4	18.6	18.3
G20-9640	18.8	19.8	19.7	19.7	19.3	19.5
G20-9840	20.1	20.2	20.8	20.7	19.8	20.3
G21-2407	19.3	20.1	19.7	19.9	18.5	19.5
G21-2534	19.0	22.0	19.6	19.5	18.5	19.7
G21-3387	18.4	19.9	19.8	19.4	18.8	19.3
G21-3656	18.6	19.9	19.6	19.3	18.6	19.2
G21-4523	18.1	19.9	19.0	18.9	17.6	18.7
G21-5990	18.8	20.9	20.1	20.3	19.6	19.9
G21-6812	17.2	18.8	18.8	18.7	18.4	18.4
N10-7412	19.4	20.2	19.3	19.9	18.8	19.5
N11-10295	18.4	18.6	19.1	18.7	17.2	18.4
N16-10756	18.7	19.0	18.3	18.7	17.8	18.5
N16-10889	17.7	19.4	18.9	19.3	17.8	18.6
N19-0115	18.9	19.8	19.6	19.3	18.5	19.2
N19-0756	19.8	20.1	20.4	20.0	19.6	20.0
N19-0806	18.4	20.1	19.1	18.8	18.1	18.9
N19-0818	17.8	19.0	18.6	18.2	17.7	18.3
N19-0829	18.0	19.3	19.2	18.9	18.6	18.8
N19-1253	18.9	19.7	20.0	19.2	18.9	19.3
N19-1468	19.7	20.9	20.4	20.6	19.3	20.2
N23-6058	17.8	17.7	18.0	18.4	16.8	17.7
Mean	18.7	19.6	19.5	19.4	18.5	19.1
LSD(0.05)	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	2.9

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

TABLE 111 - PROTEIN (%)†
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	34.6	33.7	32.0	33.0	34.1	33.5
G16-8779	33.8	35.0	33.1	33.7	34.9	34.1
NC-Dilday	33.7	35.1	32.5	34.6	33.1	33.8
P68A07SX	34.5	35.0	32.1	33.9	34.2	33.9
G18-12342	37.4	37.2	35.8	35.9	37.7	36.8
G20-6094R2	37.0	40.2	34.4	35.8	35.9	36.7
G20-9640	35.9	36.3	35.1	35.8	35.8	35.8
G20-9840	33.6	35.8	32.9	34.8	33.2	34.1
G21-2407	36.5	36.4	34.4	35.5	35.9	35.7
G21-2534	37.4	35.1	35.6	36.2	37.9	36.4
G21-3387	37.1	36.1	34.1	35.0	36.5	35.8
G21-3656	36.2	36.1	33.8	36.0	36.3	35.7
G21-4523	36.2	34.2	32.9	34.5	36.4	34.8
G21-5990	37.4	35.0	33.3	34.1	35.1	35.0
G21-6812	41.8	40.8	38.1	39.5	39.3	39.9
N10-7412	34.4	34.3	33.9	33.7	34.8	34.2
N11-10295	36.0	36.6	34.6	36.0	36.7	36.0
N16-10756	35.6	36.3	35.3	35.4	36.2	35.8
N16-10889	37.4	36.2	33.8	34.1	36.3	35.6
N19-0115	37.5	36.8	35.9	37.4	38.2	37.2
N19-0756	34.1	34.9	33.9	34.2	33.7	34.2
N19-0806	36.7	35.9	35.8	37.3	37.0	36.5
N19-0818	38.7	37.5	36.0	37.6	38.4	37.6
N19-0829	37.2	36.7	34.6	36.1	36.4	36.2
N19-1253	35.9	35.9	33.3	35.4	36.0	35.3
N19-1468	35.0	34.6	32.2	33.0	34.2	33.8
N23-6058	36.8	37.3	34.8	34.5	37.3	36.1
Mean	36.2	36.1	34.2	35.3	36.0	35.6
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	2.2

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

TABLE 112 - ESTIMATED MEAL PROTEIN (%)†
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	46.4	46.0	43.5	44.7	45.9	45.3
G16-8779	45.3	47.2	44.6	45.3	46.4	45.7
NC-Dilday	45.4	47.7	44.0	47.0	44.7	45.8
P68A07SX	46.0	47.1	43.5	45.5	45.6	45.6
G18-12342	50.0	50.4	48.2	48.7	49.9	49.4
G20-6094R2	49.4	51.4	46.6	48.3	47.9	48.7
G20-9640	48.1	49.2	47.5	48.5	48.2	48.3
G20-9840	45.7	48.8	45.2	47.7	45.0	46.5
G21-2407	49.1	49.5	46.6	48.2	47.9	48.2
G21-2534	50.1	48.9	48.1	48.9	50.5	49.3
G21-3387	49.4	49.0	46.2	47.2	48.9	48.1
G21-3656	48.4	49.0	45.7	48.5	48.5	48.0
G21-4523	48.1	46.4	44.1	46.2	48.0	46.6
G21-5990	50.0	48.1	45.3	46.5	47.5	47.5
G21-6812	54.9	54.6	51.0	52.8	52.3	53.1
N10-7412	46.3	46.7	45.7	45.7	46.6	46.2
N11-10295	47.9	48.9	46.5	48.1	48.2	47.9
N16-10756	47.6	48.7	47.0	47.3	47.9	47.7
N16-10889	49.3	48.8	45.3	45.9	48.0	47.5
N19-0115	50.2	49.9	48.5	50.4	50.9	50.0
N19-0756	46.3	47.5	46.3	46.5	45.6	46.4
N19-0806	48.9	48.8	48.1	49.9	49.1	49.0
N19-0818	51.1	50.3	48.1	50.0	50.7	50.0
N19-0829	49.3	49.4	46.5	48.4	48.6	48.4
N19-1253	48.2	48.6	45.2	47.6	48.2	47.6
N19-1468	47.4	47.5	44.0	45.2	46.1	46.0
N23-6058	48.6	49.3	46.1	46.0	48.7	47.7
Mean	48.4	48.8	46.2	47.6	48.0	47.8
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	1.7

† Estimated meal protein percentage is reported on a 13% moisture basis.

SUMMARY OF SEED FATTY ACIDS (%)**UNIFORM TEST VI 2025 †**

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AG66XF2	11.0	4.1	20.1	56.1	8.8
G16-8779	12.3	3.6	22.4	53.5	8.3
G20-6094R2	8.8	3.0	77.1	8.1	3.0
G21-2534	8.2	2.9	75.4	10.5	3.0
G21-6812	8.0	3.0	78.3	7.7	3.0
Mean	9.7	3.3	54.7	27.2	5.2
LSD(0.05)	0.4	0.2	3.9	3.3	1.0
CV(%)	2.9	4.5	5.2	8.8	14.3

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

SEED PALMITIC ACID (%)**UNIFORM GROUP VI 2025**

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	11.1	11.0	10.6	11.0	11.3	11.0
G16-8779	12.9	11.6	12.4	12.4	12.3	12.3
G20-6094R2	9.6		8.3	8.7	8.9	8.8
G21-2534	8.4	7.6	8.5	8.4	8.2	8.2
G21-6812	8.2	7.8	7.7	8.0	8.2	8.0
Mean	10.0	9.5	9.5	9.7	9.8	9.7
LSD(0.05)						0.4
CV(%)						2.9

SEED STEARIC ACID (%)**UNIFORM GROUP VI 2025**

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	4.6	4.2	3.6	3.8	4.1	4.1
G16-8779	3.8	3.7	3.4	3.4	3.6	3.6
G20-6094R2	3.0		3.0	2.9	3.1	3.0
G21-2534	3.0	2.9	2.8	2.7	3.2	2.9
G21-6812	3.1	2.9	2.9	3.0	3.1	3.0
Mean	3.5	3.4	3.2	3.2	3.4	3.3
LSD(0.05)						0.2
CV(%)						4.5

SEED OLEIC ACID (%)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	20.8	20.4	19.8	20.0	19.7	20.1
G16-8779	23.6	25.2	20.2	23.3	19.8	22.4
G20-6094R2	75.3		78.0	78.2	75.2	77.1
G21-2534	76.1	81.3	65.3	77.9	76.3	75.4
G21-6812	77.1	81.6	78.7	78.0	76.2	78.3
Mean	54.6	52.1	52.4	55.5	53.4	54.7
LSD(0.05)						3.9
CV(%)						5.2

SEED LINOLEIC ACID (%)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	54.3	57.1	57.3	56.1	55.6	56.1
G16-8779	50.8	53.4	54.8	53.4	54.8	53.5
G20-6094R2	9.2		7.9	6.9	9.0	8.1
G21-2534	9.1	5.9	18.9	8.6	10.0	10.5
G21-6812	8.4	4.9	8.2	7.6	9.2	7.7
Mean	26.4	30.3	29.4	26.5	27.7	27.2
LSD(0.05)						3.3
CV(%)						8.8

SEED LINOLENIC ACID (%)
UNIFORM GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	9.2	7.4	8.8	9.0	9.4	8.8
G16-8779	8.9	6.2	9.3	7.6	9.5	8.3
G20-6094R2	2.9		2.7	3.3	3.7	3.0
G21-2534	3.4	2.3	4.5	2.3	2.4	3.0
G21-6812	3.1	2.8	2.5	3.3	3.4	3.0
Mean	5.5	4.7	5.6	5.1	5.7	5.2
LSD(0.05)						1.0
CV(%)						14.3

INTENTIONALLY BLANK

TABLE 113 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP VI 2025

<i>Ent</i>	<i>Strain/Variety</i>	<i>Parentage</i>	<i>Source</i>	<i>Fn</i>	<i>Trans- genic†</i>	<i>Special Traits‡</i>
1	AG66XF2	Commercial check	check		XF	
2	G16-8779	Commercial check	check		Conv	
3	NC-Dilday	Commercial check	check		Conv	
4	P68A07SX	Commercial check	check		RR2X	
5	G21-2478	G17PR-1223HOLL X G17PR-1349HOLL	Zenglu Li		Conv	HOLN
6	G21-7073	G17PR-1223HOLL x [R12-514 x Benning HP]	Zenglu Li		Conv	HOLN
7	G22-13795LL	G15PRLL-989 X S13-1955C	Zenglu Li		LL	
8	G22-14034LL	G15PRLL-989 X G16LL-10180	Zenglu Li		LL	
9	G22-3974	G14-6063 X G11-7013	Zenglu Li		Conv	
10	G22-3975	G14-6063 X G11-7013	Zenglu Li		Conv	
11	G22-4047	G14-8109 x PI556858 (A6297)	Zenglu Li		Conv	
12	G22-5274	G14-8109 X G11-7013	Zenglu Li		Conv	
13	G22-5421	G17-11319 X R13-1409	Zenglu Li		Conv	
14	G22-5564	G12-6543 X N10-7412	Zenglu Li		Conv	
15	G22-9900R2	G13-2842R2 X G13-2114R2	Zenglu Li		RR2	
16	G23-D104E3	G16-8779 (4) x CTV-DNR-1010	Zenglu Li		E3	
17	N19-0820	G00-3213 x R11-7999	Mian		Conv	High meal protein, 12.5% exotic
18	N19-1090	N06-06-1 x R11-8346	Mian		Conv	High meal protein
19	N21-0580	N09-13890 x GA SF 114 QTL	Fallen		Conv	
20	N21-1051	N09-13890 x GA SF 114 QTL	Fallen		Conv	
21	N21-1057	N09-13890 x GA SF 114 QTL	Fallen		Conv	
22	N21-1065	N09-13890 x GA SF 114 QTL	Fallen		Conv	
23	N23-6065	G00-3213 x N10-7412	Fallen		Conv	
24	N23-6076	G00-3213 x N06-7543	Fallen		Conv	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®, RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

**TABLE 114 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST VI 2025**

STRAIN/ VARIETY	SEED YIELD†	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
							Race 2	Race 3	Race 5		
AG66XF2	65.9	1	4	0	1.3	35	4.6	.	1.6	R	1
G16-8779	51.7	19	15	0	1.4	33	2.3	.	1.0	S	5
NC-Dilday	59.5	5	10	-3	1.9	34	.	.	2.0	R	1
P68A07SX	58.9	7	9	-2	1.5	37	.	.	3.8	R	1
G21-2478	50.4	20	15	-3	1.6	38	4.8	.	1.8	S	5
G21-7073	55.9	11	13	0	1.7	33	4.0	.	1.0	R	1
G22-13795LL	59.3	6	9	1	1.5	38	1.5	.	2.4	S	5
G22-14034LL	61.1	3	7	1	1.6	38	1.5	.	3.8	S	5
G22-3974	55.3	13	14	-3	1.7	43	3.0	.	3.4	R	1
G22-3975	55.8	12	14	-1	1.8	39	3.8	.	1.2	R	1
G22-4047	58.2	9	11	-4	1.2	39	4.4	.	3.6	MR	2
G22-5274	50.4	21	18	-2	2.0	40	3.6	.	1.0	R	1
G22-5421	57.9	10	11	1	1.4	38	4.4	.	3.0	R	1
G22-5564	54.2	16	15	0	1.7	36	4.3	.	3.0	S	5
G22-9900R2	60.4	4	6	0	1.4	33	2.8	.	3.8	R	1
G23-D104E3	58.6	8	9	0	1.3	30	4.3	.	1.4	S	5
N19-0820	54.5	15	12	2	1.2	31	.	.	2.0	MS	4
N19-1090	64.1	2	5	-3	1	30	4.2	.	2.3	R	1
N21-0580	42.7	24	22	-3	1.7	32	.	.	2.2	R	1
N21-1051	49.7	22	17	0	1.5	34	.	.	1.8	R	1
N21-1057	54.6	14	14	-2	1.7	33	.	.	3.0	R	1
N21-1065	46.3	23	21	-2	1.8	34	.	.	2.0	R	1
N23-6065	54.2	17	14	-1	2.0	39	.	.	1.6	SS	3
N23-6076	53.1	18	16	-2	2.1	40	4.0	.	1.4	S	5
Mean	55.5	.	.	-1	1.6	36	.	.	.	.	.
LSD(0.05)	8.8	.	.	5	0.4	4	.	.	.	.	.
LSD(0.10)	7.4	.	.	.	.	.	.	.	.	.	.
CV(%)	14.5	.	.	317	25.9	11	.	.	.	.	.

†Data not included in the mean due to CV >15%: none

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

TABLE 115 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST VI 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
AG66XF2	1.4	14.5	33.5	19.7	45.3	Lt	Tn	
G16-8779	1.8	16.0	34.4	18.8	46.1			
NC-Dilday	1.8	17.2	33.9	19.6	45.9			
P68A07SX	1.8	13.9	34.1	19.1	45.8			
G21-2478	1.4	15.7	37.5	19.3	50.4	W	T	T
G21-7073	1.6	14.1	36.9	19.4	49.8	W	T	T
G22-13795LL	1.7	15.4	34.4	18.9	46.1	W	T	T
G22-14034LL	1.7	13.8	34.4	19.4	46.4	W	T	T
G22-3974	1.4	16.7	36.3	19.4	49.0	W	G	T
G22-3975	1.4	17.6	36.2	18.7	48.5	W	G	T
G22-4047	1.9	16.1	33.6	20.2	45.8	W	T	T
G22-5274	1.9	15.7	35.5	19.3	47.8	W	T	T
G22-5421	2.4	15.7	35.5	19.2	47.7	W	T	T
G22-5564	2.1	15.4	34.9	20.0	47.4	W	T	T
G22-9900R2	1.3	15.8	34.6	19.7	46.9	P	T	T
G23-D104E3	3.1	15.5	33.6	19.4	45.3	P	T	T
N19-0820	1.4	14.7	36.5	18.3	48.5	S	T	
N19-1090	1.4	13.3	37.9	19.0	50.8	W	T	
N21-0580	1.4	14.4	40.7	16.7	53.1	P	T	
N21-1051	1.2	14.8	41.7	16.4	54.1	P	T	
N21-1057	1.4	14.8	39.5	17.7	52.1	P	T	
N21-1065	1.4	14.9	40.9	17.0	53.6	P	T	
N23-6065	1.3	14.1	35.3	18.6	47.1	W	T	
N23-6076	1.3	15.3	35.4	18.9	47.5	W	T	
Mean	1.6	15.2	36.1	18.9	48.4			
LSD(0.05)	0.8	1.3	1.2	0.6	1.4			
LSD(0.10)	.	.	.	.	.			
CV(%)	33.2	7.7	2.6	2.5	2.3			

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

TABLE 116 - SEED YIELD (BUSHEL PER ACRE)
PRELIMINARY GROUP VI 2025 †

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	72.4	61.6	61.9	81.6	52.1	65.9
G16-8779	60.7	33.4	45.5	72.9	45.9	51.7
NC-Dilday	69.4	64.8	52.8	66.0	44.6	59.5
P68A07SX	62.5	57.6	48.3	69.8	56.4	58.9
G21-2478	56.3	29.1	51.9	60.6	54.4	50.4
G21-7073	70.9	44.2	50.8	69.3	44.2	55.9
G22-13795LL	66.7	51.5	58.0	69.2	51.2	59.3
G22-14034LL	72.5	52.2	59.6	68.5	52.5	61.1
G22-3974	59.4	64.2	43.7	56.2	52.8	55.3
G22-3975	56.1	63.2	52.5	58.4	48.6	55.8
G22-4047	60.4	69.7	51.4	59.1	50.4	58.2
G22-5274	47.0	50.2	48.2	58.3	48.3	50.4
G22-5421	67.5	51.3	47.0	67.7	56.3	57.9
G22-5564	60.8	52.8	48.8	64.5	44.3	54.2
G22-9900R2	72.0	43.9	54.5	74.9	56.5	60.4
G23-D104E3	65.3	45.4	58.3	73.9	50.1	58.6
N19-0820	65.2	34.2	45.9	71.7	55.6	54.5
N19-1090	69.2	68.7	55.0	69.0	58.6	64.1
N21-0580	56.5	24.6	37.2	53.5	42.0	42.7
N21-1051	62.3	33.0	47.7	56.9	48.7	49.7
N21-1057	55.6	54.0	53.7	64.5	45.1	54.6
N21-1065	54.1	46.6	31.5	58.4	41.1	46.3
N23-6065	53.4	55.3	53.1	59.1	50.0	54.2
N23-6076	51.3	62.7	39.8	64.5	47.5	53.1
Mean	62.0	50.6	49.9	65.3	49.9	55.5
LSD(0.05)	8.7	10.6	6.3	7.7	5.7	8.8
LSD(0.10)	7.3	8.9	5.3	6.4	4.7	7.4
CV(%)	8.6	12.8	7.6	7.2	6.9	14.5

† Data not included in the test mean due to CV > 15%: none

**TABLE 117 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP VI 2025**

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	10/23	10/9	.	.	.	10/16
G16-8779	-5	4	.	.	.	0
NC-Dilday	0	-6	.	.	.	-3
P68A07SX	0	-3	.	.	.	-2
G21-2478	-5	-1	.	.	.	-3
G21-7073	0	0	.	.	.	0
G22-13795LL	0	2	.	.	.	1
G22-14034LL	0	2	.	.	.	1
G22-3974	0	-6	.	.	.	-3
G22-3975	0	-2	.	.	.	-1
G22-4047	0	-7	.	.	.	-4
G22-5274	-1	-3	.	.	.	-2
G22-5421	-2	3	.	.	.	1
G22-5564	0	0	.	.	.	0
G22-9900R2	-1	0	.	.	.	0
G23-D104E3	0	-1	.	.	.	0
N19-0820	0	4	.	.	.	2
N19-1090	-3	-3	.	.	.	-3
N21-0580	-4	-2	.	.	.	-3
N21-1051	-2	2	.	.	.	0
N21-1057	-3	-1	.	.	.	-2
N21-1065	-4	0	.	.	.	-2
N23-6065	0	-1	.	.	.	-1
N23-6076	-2	-2	.	.	.	-2
Mean	-1	-1	.	.	.	-1
LSD(0.05)	2	6	.	.	.	5
CV(%)	.	.	.	.	.	.

TABLE 118 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	44	23	30	36	44	35
G16-8779	38	22	28	31	47	33
NC-Dilday	43	28	25	37	38	34
P68A07SX	48	22	28	39	47	37
G21-2478	49	22	33	42	45	38
G21-7073	45	17	28	32	43	33
G22-13795LL	50	24	36	40	38	38
G22-14034LL	51	23	38	39	39	38
G22-3974	53	31	30	47	49	43
G22-3975	49	27	36	40	44	39
G22-4047	47	35	29	39	44	39
G22-5274	54	26	31	42	44	40
G22-5421	47	27	32	41	44	38
G22-5564	46	24	37	38	33	36
G22-9900R2	42	21	33	34	35	33
G23-D104E3	38	21	30	29	34	30
N19-0820	39	18	28	32	38	31
N19-1090	36	23	26	30	33	30
N21-0580	41	16	27	34	44	32
N21-1051	43	22	35	32	40	34
N21-1057	42	21	31	34	41	33
N21-1065	44	23	33	36	32	34
N23-6065	50	22	35	43	46	39
N23-6076	48	27	40	43	41	40
Mean	45	24	32	37	41	36
LSD(0.05)	4	5	.	4	.	4
CV(%)	5	14	.	6	.	11

TABLE 119 - PLANT LODGING (1-5)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	1.7	1.0	1.5	1.0	1.5	1.3
G16-8779	1.7	1.0	1.0	1.0	2.3	1.4
NC-Dilday	3.0	1.0	1.3	1.7	2.8	2
P68A07SX	2.3	1.0	1.2	1.0	2.0	1.5
G21-2478	2.0	1.0	2.0	1.0	2.3	1.6
G21-7073	2.0	1.0	1.5	1.0	3.0	1.7
G22-13795LL	2.0	1.0	1.8	1.0	2.0	1.5
G22-14034LL	2.0	1.0	1.8	1.0	2.5	1.6
G22-3974	2.3	1.0	1.3	2.0	2.0	1.7
G22-3975	2.3	1.0	1.5	2.0	2.0	1.8
G22-4047	1.7	1.0	1.0	1.0	1.5	1.2
G22-5274	2.7	1.0	1.5	2.0	2.8	2.0
G22-5421	1.7	1.0	1.5	1.0	2.0	1.4
G22-5564	2.0	1.0	1.5	1.3	2.5	1.7
G22-9900R2	1.3	1.0	1.8	1.0	1.8	1.4
G23-D104E3	1.3	1.0	1.5	1.0	1.8	1.3
N19-0820	1.3	1.0	1.0	1.0	1.5	1.2
N19-1090	1.0	1.0	1.0	1.0	1.3	1.1
N21-0580	2.0	1.0	1.8	1.3	2.5	1.7
N21-1051	1.7	1.0	1.8	1.0	2.3	1.5
N21-1057	1.7	1.0	1.8	1.3	2.8	1.7
N21-1065	2.3	1.0	1.8	2.0	1.8	1.8
N23-6065	2.7	1.0	2.3	2.0	2.3	2.0
N23-6076	2.7	1.0	2.0	2.0	3.0	2.1
Mean	2.0	1.0	1.5	1.3	2.2	1.6
LSD(0.05)	0.9	.	0.6	0.4	0.7	0.4
CV(%)	26.8	.	20.5	17.0	16.7	25.9

TABLE 120 - SEED QUALITY (1-5)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	1.5	1.0	.	1.7	.	1.4
G16-8779	1.8	2.0	.	1.5	.	1.8
NC-Dilday	1.8	1.0	.	2.7	.	2
P68A07SX	2.0	2.0	.	1.3	.	1.8
G21-2478	2.2	1.0	.	1.0	.	1.4
G21-7073	1.7	2.0	.	1.0	.	1.6
G22-13795LL	1.7	2.0	.	1.5	.	1.7
G22-14034LL	1.8	2.0	.	1.2	.	1.7
G22-3974	1.7	1.0	.	1.7	.	1.4
G22-3975	1.8	1.0	.	1.5	.	1.4
G22-4047	2.2	2.0	.	1.5	.	1.9
G22-5274	2.5	2.0	.	1.2	.	1.9
G22-5421	2.3	2.0	.	3.0	.	2.4
G22-5564	2.2	3.0	.	1.0	.	2.1
G22-9900R2	1.7	1.0	.	1.2	.	1.3
G23-D104E3	2.2	4.0	.	3.0	.	3.1
N19-0820	1.7	1.0	.	1.5	.	1.4
N19-1090	1.8	1.0	.	1.5	.	1.4
N21-0580	2.0	1.0	.	1.3	.	1.4
N21-1051	1.5	1.0	.	1.0	.	1.2
N21-1057	2.0	1.0	.	1.3	.	1.4
N21-1065	2.2	1.0	.	1.2	.	1.4
N23-6065	1.7	1.0	.	1.2	.	1.3
N23-6076	2.0	1.0	.	1.0	.	1.3
Mean	1.9	1.5	.	1.5	.	1.6
LSD(0.05)	0.7	.	.	0.4	.	0.8
CV(%)	22.9	.	.	16.1	.	33.2

TABLE 121 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	16.9	14.0	12.9	15.8	13.2	14.5
G16-8779	17.2	18.4	13.4	17.0	13.7	16.0
NC-Dilday	18.5	17.8	16.4	18.9	14.2	17.2
P68A07SX	14.6	15.0	13.6	13.9	12.5	13.9
G21-2478	15.2	15.7	15.5	17.1	14.9	15.7
G21-7073	15.6	13.9	14.2	14.5	12.5	14.1
G22-13795LL	18.6	14.7	13.9	16.5	13.5	15.4
G22-14034LL	15.1	15.7	12.9	13.8	11.3	13.8
G22-3974	17.6	15.1	18.2	17.9	14.9	16.7
G22-3975	19.1	18.6	18.5	17.8	14.0	17.6
G22-4047	17.4	16.1	16.5	15.9	14.6	16.1
G22-5274	16.4	16.5	15.3	16.2	14.4	15.7
G22-5421	17.7	14.1	15.1	18.0	13.4	15.7
G22-5564	16.6	13.8	15.8	16.8	14.1	15.4
G22-9900R2	17.9	17.3	15.0	15.7	13.1	15.8
G23-D104E3	16.5	18.7	13.2	16.7	12.3	15.5
N19-0820	16.4	13.7	15.3	15.1	13.2	14.7
N19-1090	15.4	13.5	11.8	14.4	11.3	13.3
N21-0580	15.6	16.1	13.1	15.1	11.9	14.4
N21-1051	16.5	16.8	12.8	15.0	13.1	14.8
N21-1057	15.4	16.1	13.6	15.3	13.4	14.8
N21-1065	16.0	16.6	14.1	14.8	12.9	14.9
N23-6065	14.0	13.8	14.8	14.9	13.4	14.1
N23-6076	15.9	14.9	15.2	16.4	14.3	15.3
Mean	16.5	15.7	14.6	16.0	13.3	15.2
LSD(0.05)	1.0	.	1.2	1.6	1.1	1.3
CV(%)	3.9	.	3.9	5.9	3.9	7.7

TABLE 122 - OIL (%)†
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	19.3	20.4	19.7	20.0	19.1	19.7
G16-8779	18.3	18.8	19.1	19.3	18.5	18.8
NC-Dilday	19.6	20.0	19.5	20.5	18.6	19.6
P68A07SX	18.4	19.6	19.8	19.2	18.6	19.1
G21-2478	18.9	20.3	18.9	19.5	18.7	19.3
G21-7073	18.8	20.4	19.7	19.3	18.7	19.4
G22-13795LL	18.2	19.8	19.2	18.9	18.3	18.9
G22-14034LL	18.7	19.7	20.2	19.2	19.2	19.4
G22-3974	19.7	20.0	19.2	19.8	18.6	19.4
G22-3975	18.0	19.8	18.8	18.9	18.1	18.7
G22-4047	20.0	20.5	20.2	20.2	20.1	20.2
G22-5274	18.9	20.0	18.6	19.9	19.1	19.3
G22-5421	19.3	18.9	19.4	19.1	19.2	19.2
G22-5564	19.5	20.8	19.6	20.3	19.8	20.0
G22-9900R2	19.5	20.0	20.2	20.1	18.6	19.7
G23-D104E3	19.1	20.1	19.5	20.1	18.5	19.4
N19-0820	17.5	19.8	18.2	18.6	17.3	18.3
N19-1090	18.9	18.9	19.6	19.4	18.1	19.0
N21-0580	15.4	16.5	17.6	17.2	16.8	16.7
N21-1051	16.4	15.3	17.7	16.7	15.7	16.4
N21-1057	17.3	18.2	18.9	17.6	16.7	17.7
N21-1065	16.6	16.8	17.6	17.6	16.6	17.0
N23-6065	18.2	19.5	18.7	18.9	17.9	18.6
N23-6076	17.8	20.0	19.6	19.1	18.2	18.9
Mean	18.4	19.3	19.1	19.1	18.3	18.9
LSD(0.05)	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	2.5

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

TABLE 123 - PROTEIN (%)†
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	34.1	33.7	32.9	33.2	33.5	33.5
G16-8779	35.0	36.8	32.8	33.7	33.7	34.4
NC-Dilday	32.9	35.7	33.2	33.5	34.4	33.9
P68A07SX	34.9	35.9	31.7	34.1	33.9	34.1
G21-2478	38.2	37.2	37.8	37.2	37.0	37.5
G21-7073	37.9	37.1	35.0	37.7	37.0	36.9
G22-13795LL	35.0	35.5	33.1	34.4	34.0	34.4
G22-14034LL	34.2	36.1	32.2	35.1	34.5	34.4
G22-3974	38.5	36.3	35.2	35.6	35.8	36.3
G22-3975	37.0	37.3	35.1	35.9	35.9	36.2
G22-4047	33.0	34.4	33.2	34.7	32.7	33.6
G22-5274	36.3	36.2	35.0	34.0	35.8	35.5
G22-5421	35.1	38.1	34.2	36.0	34.0	35.5
G22-5564	35.4	36.2	34.8	34.3	33.9	34.9
G22-9900R2	35.0	35.0	33.1	34.6	35.4	34.6
G23-D104E3	33.1	34.5	33.2	32.8	34.3	33.6
N19-0820	38.4	35.8	35.4	35.6	37.2	36.5
N19-1090	38.4	39.1	35.1	38.7	38.1	37.9
N21-0580	41.3	42.7	39.2	41.9	38.4	40.7
N21-1051	41.7	43.9	39.3	41.9	41.5	41.7
N21-1057	39.8	40.4	36.8	39.9	40.4	39.5
N21-1065	41.1	41.4	40.8	40.6	40.7	40.9
N23-6065	35.9	35.2	35.0	35.0	35.3	35.3
N23-6076	37.8	35.8	31.3	35.9	36.4	35.4
Mean	36.7	37.1	34.8	36.1	36.0	36.1
LSD(0.05)	.	.	.	.	.	1.2
CV(%)	.	.	.	.	.	2.6

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

TABLE 124 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	46.0	46.0	44.5	45.1	45.0	45.3
G16-8779	46.6	49.3	44.1	45.4	44.9	46.1
NC-Dilday	44.4	48.5	44.8	45.8	45.9	45.9
P68A07SX	46.4	48.5	43.0	45.9	45.3	45.8
G21-2478	51.1	50.7	50.7	50.2	49.5	50.4
G21-7073	50.7	50.7	47.4	50.8	49.5	49.8
G22-13795LL	46.5	48.1	44.5	46.1	45.2	46.1
G22-14034LL	45.7	48.9	43.9	47.2	46.4	46.4
G22-3974	52.1	49.3	47.4	48.2	47.8	49.0
G22-3975	49.1	50.6	47.0	48.1	47.6	48.5
G22-4047	44.8	47.0	45.2	47.3	44.5	45.8
G22-5274	48.6	49.2	46.7	46.1	48.1	47.8
G22-5421	47.3	51.1	46.1	48.4	45.7	47.7
G22-5564	47.8	49.7	47.0	46.8	45.9	47.4
G22-9900R2	47.3	47.6	45.1	47.1	47.3	46.9
G23-D104E3	44.4	46.9	44.8	44.6	45.7	45.3
N19-0820	50.5	48.5	47.0	47.5	48.9	48.5
N19-1090	51.5	52.4	47.5	52.2	50.6	50.8
N21-0580	53.0	55.6	51.7	55.0	50.2	53.1
N21-1051	54.3	56.3	51.9	54.7	53.5	54.1
N21-1057	52.3	53.7	49.3	52.6	52.7	52.1
N21-1065	53.5	54.1	53.8	53.6	53.0	53.6
N23-6065	47.6	47.5	46.8	46.9	46.7	47.1
N23-6076	50.0	48.6	42.3	48.2	48.4	47.5
Mean	48.8	50.0	46.8	48.5	47.9	48.4
LSD(0.05)	.	.	.	.	.	1.4
CV(%)	.	.	.	.	.	2.3

† Estimated meal protein percentage is reported on a 13% moisture basis.

SUMMARY OF SEED FATTY ACIDS (%)
PRELIMINARY TEST VI 2025 †

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
AG66XF2	11.4	3.9	19.2	56.9	8.6
G16-8779	12.4	3.5	21.6	53.7	8.9
G21-2478	7.5	3.1	79.1	7.8	2.4
G21-7073	7.3	2.8	79.2	7.9	2.8
Mean	9.7	3.3	49.8	31.6	5.7
LSD(0.05)	0.4	0.4	2.5	2.8	1.0
CV(%)	3.0	9.4	3.4	6.4	11.8

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

SEED PALMITIC ACID (%)
PRELIMINARY GROUP VI 2024

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	9.2	7.0	8.6	9.0	9.2	8.6
G16-8779	9.7	7.4	9.0	8.3	10.3	8.9
G21-2478	2.4	2.5		2.1	2.7	2.4
G21-7073	3.2	2.8	2.4	3.0	2.6	2.8
Mean	6.1	4.9	6.7	5.6	6.2	5.7
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	11.8

SEED STEARIC ACID (%)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	9.2	7.0	8.6	9.0	9.2	8.6
G16-8779	9.7	7.4	9.0	8.3	10.3	8.9
G21-2478	2.4	2.5		2.1	2.7	2.4
G21-7073	3.2	2.8	2.4	3.0	2.6	2.8
Mean	6.1	4.9	6.7	5.6	6.2	5.7
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	11.8

SEED OLEIC ACID (%)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	20.2	18.5	19.3	19.8	18.2	19.2
G16-8779	22.9	19.1	19.9	25.1	20.9	21.6
G21-2478	78.7	81.3		78.9	77.8	79.1
G21-7073	78.8	82.0	78.5	79.5	77.0	79.2
Mean	50.2	50.2	39.2	50.8	48.5	49.8
LSD(0.05)	.	.	.	.	.	2.5
CV(%)	.	.	.	.	.	3.4

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	54.6	58.9	57.6	55.9	57.4	56.9
G16-8779	52.0	57.7	55.6	50.9	52.1	53.7
G21-2478	8.4	5.8		8.3	8.7	7.8
G21-7073	8.0	5.4	8.7	7.5	10.1	7.9
Mean	30.8	32.0	40.6	30.7	32.1	31.6
LSD(0.05)	.	.	.	.	.	2.8
CV(%)	.	.	.	.	.	6.4

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP VI 2025

STRAIN/ VARIETY	Athens, GA(A)	Bossier City, LA	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
AG66XF2	9.2	7.0	8.6	9.0	9.2	8.6
G16-8779	9.7	7.4	9.0	8.3	10.3	8.9
G21-2478	2.4	2.5		2.1	2.7	2.4
G21-7073	3.2	2.8	2.4	3.0	2.6	2.8
Mean	6.1	4.9	6.7	5.6	6.2	5.7
LSD(0.05)	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	11.8

TABLE 125 - PARENTAGE OF ENTRIES
UNIFORM GROUP VII-VIII 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	SH 7418LL	Commercial check	check		LL	
2	AG72XF0	Commercial check	check		XF	
3	P70A62E	Commercial check	check		E3	
4	G21-245R2X	Commercial check	check			
5	N8002	Commercial check	check		Conv	
6	G18-12063	Woodruff X N10-7121	Zenglu Li		Conv	
7	G19-12278	N10-1031 X G14-8109	Zenglu Li		Conv	
8	G20-4820R2	N08-174 X G12-2103R2	Zenglu Li		RR2	
9	G20-8200	G00-3213-HOLL-B3 X G00-3880-HOLL-B3	Zenglu Li		Conv	HOLN
10	G20-8317	G00-3213-HOLL-B3 X G00-3880-HOLL-B3	Zenglu Li		Conv	HOLN
11	G20-9503	G13-6299 X G11-7013	Zenglu Li		Conv	
12	G20-9576	G13-6299 X G11-7013	Zenglu Li		Conv	
13	G21-13035LL	G13LL-44 (2) x G00-3213Rpp1	Zenglu Li		LL	SR
14	G21-2080	Woodruff (4) x Benning HP	Zenglu Li		Conv	Protein-NIL
15	G21-4424	G13-6299 X N10-711	Zenglu Li		Conv	
16	G21-5441	Woodruff X N09-13890	Zenglu Li		Conv	
17	G21-6007	G12-6543 X 9581	Zenglu Li		Conv	
18	G21-6191	G12-6543 X G14-6102	Zenglu Li		Conv	
19	G21-8335R2	G18PR-1101R2HOLL x G18PR-1103R2HOLL	Zenglu Li		RR2	HOLN
20	G23PR-1001BXF	G21-241R2X (4) x XtendFlex	Zenglu Li		XF	
21	G23PR-1034BE3	G18F3D-415 (4) x G21-209E3	Zenglu Li		E3	
22	G24-10220BXF	G17-5173R2 (4) x XtendFlex	Zenglu Li		XF	
23	N11-7472	NC-Roy x PI 587563B	Fallen		Conv	50% exotic
24	N14-7142	G00-3213 x TCHM-Morph-204	Fallen		Conv	Increased protein, 12.5% exotic
25	N16-10927	NC-Roy x N01-11771	Fallen		Conv	Drought Tol.
26	N16-10962	NC-Roy x N01-11771	Fallen		Conv	Drought Tol.
27	N18-8116	R00-1194F x PI 200487	Fallen		Conv	50% exotic
28	N23-6009	N8002 x MUSEN	Fallen		Conv	
29	N23-6047	MUSEN x N09-13890	Fallen		Conv	
30	N23-6080	G00-3213 x N06-7543	Fallen		Conv	

† Conv= Conventional(non-transgenic),DIC - Dicamba resistance Xtend®, E3= Enlist E3®, LL=Liberty Link®, RR1=Roundup Ready®, RR2=Roundup Ready 2 Yield®,

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile, LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid, SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance, and STS= sulfonylurea tolerant

TABLE 126 - GENERAL SUMMARY OF PERFORMANCE
UNIFORM TEST VII-VIII 2025

STRAIN/ VARIETY	RANK	AVG. RANK	YIELD†			PROTEIN‡			OIL‡		
			2025	24-24	23-25	2025	24-25	23-25	2025	24-25	23-25
SH 7418LL	17	16	59.2	56.0	55.2	36.2	36.0	36.0	18.9	19.0	18.8
AG72XF0	25	20	57.2	51.5	52.6	34.4	34.5	35.0	19.4	19.3	18.9
P70A62E	29	19	56.0	.	.	35.3	.	.	18.9	.	.
G21-245R2X	13	17	59.9	55.4	54.2	34.7	34.5	35.0	18.8	18.9	18.5
N8002	21	19	58.0	51.6	50.5	35.2	35.2	35.6	18.7	18.8	18.4
G18-12063	9	13	61.2	57.6	.	36.6	37.0	.	17.7	17.6	.
G19-12278	10	13	61.1	57.4	.	33.7	34.1	.	19.9	19.7	.
G20-4820R2	1	9	63.9	60.1	.	33.7	33.7	.	19.3	19.3	.
G20-8200	22	18	58.0	52.6	.	35.4	35.5	.	19.3	19.4	.
G20-8317	24	17	57.6	52.8	.	35.5	35.5	.	20.0	20.1	.
G20-9503	11	14	60.9	57.0	.	35.0	35.2	.	18.8	18.9	.
G20-9576	6	12	61.9	58.0	.	35.3	35.0	.	19.2	19.4	.
G21-13035LL	28	19	56.9	.	.	36.1	.	.	19.0	.	.
G21-2080	2	9	63.7	.	.	36.6	.	.	18.9	.	.
G21-4424	5	11	62.1	.	.	35.7	.	.	18.6	.	.
G21-5441	3	12	63.1	.	.	35.1	.	.	18.1	.	.
G21-6007	26	19	57.2	.	.	35.6	.	.	19.6	.	.
G21-6191	15	17	59.4	.	.	36.4	.	.	18.7	.	.
G21-8335R2	18	15	59.0	.	.	36.1	.	.	19.0	.	.
G23PR-1001BXF	7	11	61.9	.	.	34.8	.	.	18.7	.	.
G23PR-1034BE3	27	19	57.1	.	.	34.9	.	.	20.0	.	.
G24-10220BXF	12	14	60.6	.	.	35.2	.	.	19.1	.	.
N11-7472	30	27	52.1	.	.	35.5	.	.	18.5	.	.
N14-7142	19	17	58.2	54.8	54.4	35.5	35.4	35.9	18.9	19.0	18.7
N16-10927	4	10	62.4	57.0	54.3	34.7	34.7	35.1	18.7	18.8	18.5
N16-10962	14	15	59.8	53.8	52.5	35.2	35.1	35.5	19.0	19.0	18.9
N18-8116	16	14	59.4	.	.	34.5	.	.	19.2	.	.
N23-6009	8	11	61.7	.	.	34.9	.	.	18.7	.	.
N23-6047	20	18	58.1	.	.	34.2	.	.	20.3	.	.
N23-6080	23	18	58.0	.	.	35.6	.	.	19.1	.	.
Mean	.	.	59.5	.	.	35.2	.	.	19.0	.	.
LSD(0.05)	.	.	5.6	.	.	0.9	.	.	0.6	.	.
LSD(0.10)	.	.	4.7	.	.	.	.	.	.	.	.
CV(%)	.	.	11.8	.	.	2.4	.	.	2.7	.	.

† Data not included in yield mean: 2023 Athens (B) and Jackson Springs; 2024 Fairhope and Plymouth.

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

TABLE 127 - GENERAL SUMMARY OF PERFORMANCE -Part 2
UNIFORM TEST VII-VIII 2025

STRAIN/ VARIETY	MEAL† PRO %	MAT INDEX	LOD	HT	SEED QUALITY	SEED SIZE	FL. COLOR	PUB. COLOR	POD COLOR
SH 7418LL	48.4	0	1.7	38	1.4	16.2			
AG72XF0	46.3	1	1.1	36	1.4	13.8	W	Tw	Br
P70A62E	47.3	3	2.8	38	2.1	15.7			
G21-245R2X	46.4	1	1.5	36	1.5	17.1			
N8002	47.1	4	2.6	35	1.5	15.3			
G18-12063	48.4	-2	1.9	39	1.3	14.5	W	T	T
G19-12278	45.7	0	1.8	34	1.3	13.4	P	T	T
G20-4820R2	45.4	2	1.7	36	1.5	16.4	P	T	T
G20-8200	47.7	1	1.4	37	1.3	14.0	W	T	T
G20-8317	48.2	1	1.6	36	1.4	13.9	P	T	T
G20-9503	46.8	2	1.5	39	1.5	14.3	W	T	T
G20-9576	47.5	4	1.6	39	1.4	13.9	W	T	T
G21-13035LL	48.5	-1	1.8	37	1.5	16.5	W	T	T
G21-2080	49.0	2	1.6	35	1.3	16.1	W	T	T
G21-4424	47.6	0	1.2	34	1.2	14.6	P	T	T
G21-5441	46.6	2	2.0	37	1.4	17.4	W	T	T
G21-6007	48.1	1	1.8	40	1.4	15.0	W	T	T
G21-6191	48.7	3	1.9	41	1.3	15.7	W	T	T
G21-8335R2	48.4	3	1.6	42	1.3	14.6	W	T	T
G23PR-1001BXF	46.5	-2	1.5	34	1.5	16.6	P	T	T
G23PR-1034BE3	47.4	5	1.5	37	1.8	13.2	W	G	T
G24-10220BXF	47.2	-1	1.5	32	1.3	13.9			
N11-7472	47.3	2	2.1	35	1.7	17.2	W	G	
N14-7142	47.5	4	2.6	37	1.4	16.0	P	G	
N16-10927	46.3	2	2.7	36	1.5	13.2	P	G	
N16-10962	47.2	2	2.3	39	1.6	14.2	W	G	
N18-8116	46.4	4	2.2	35	1.5	17.7	P	T	
N23-6009	46.7	4	2.0	37	1.6	14.0	W	G	
N23-6047	46.7	4	1.6	39	1.3	17.0	W	G	
N23-6080	47.8	1	1.7	37	1.4	15.1	W	T	
Mean	47.3	2	1.8	37	1.5	15.2			
LSD(0.05)	0.9	2	0.4	3	0.4	0.8			
CV(%)	1.9	64	28.0	8	25.0	6.6			

† Estimated meal protein content was added to the annual report in 2018.

**TABLE 128 - GENERAL SUMMARY OF PEST REACTION
UNIFORM TEST VII-VIII 2025**

STRAIN/ VARIETY	SCN Cyst Score (1-5 Scale)†			RKN Gall Score (1-5 Scale)‡			SC RATING	SC SCORE
	Race 2	Race 3	Race 5	PRK	SRK	JRK		
SH 7418LL	4.8	.	4.6	2.3	1.3	3.0	S	5
AG72XF0	3.6	.	1.4	3.8	1.8	4.0	R	1
P70A62E	4.5	.	4.0	5.0	1.3	5.0	R	1
G21-245R2X	4.4	.	4.5	3.5	2.3	4.3	R	1
N8002	4.4	.	4.4	4.8	4.5	4.8	MS	4
G18-12063	4.8	.	3.8	4.8	2.8	5.0	S	5
G19-12278	4.5	.	4.2	2.5	2.0	3.0	S	5
G20-4820R2	4.6	.	4.2	3.3	1.3	3.8	R	1
G20-8200	4.6	.	3.8	3.3	5.0	3.5	MS	4
G20-8317	4.6	.	3.2	3.3	1.8	3.3	S	5
G20-9503	4.0	.	2.2	3.5	1.3	3.5	S	5
G20-9576	4.8	.	3.4	3.0	1.5	1.8	S	5
G21-13035LL	4.2	.	4.0	1.5	1.3	2.8	S	5
G21-2080	4.5	.	4.2	5.0	1.0	4.8	MR	2
G21-4424	5.0	.	3.4	4.5	1.5	4.8	S	5
G21-5441	4.8	.	3.6	5.0	2.5	5.0	R	1
G21-6007	5.0	.	4.2	2.8	1.5	4.0	S	5
G21-6191	5.0	.	3.8	3.5	1.0	2.5	MS	4
G21-8335R2	3.6	.	1.6	4.5	1.0	5.0	S	5
G23PR-1001BXF	4.6	.	4.0	2.5	1.0	3.3	R	1
G23PR-1034BE3	4.8	.	3.8	4.0	2.0	4.7	.	.
G24-10220BXF	4.8	.	4.0	3.5	1.0	4.5	MS	4
N11-7472	4.8	.	3.0	4.8	2.0	4.5	S	5
N14-7142	4.6	.	3.8	4.3	4.8	4.0	S	5
N16-10927	4.8	.	3.8	5.0	3.0	4.8	R	1
N16-10962	4.8	.	2.8	5.0	4.0	5.0	R	1
N18-8116	5.0	.	3.4	4.8	1.5	4.0	R	1
N23-6009	2.0	.	2.0	4.8	1.5	5.0	S	5
N23-6047	5.0	.	1.4	3.8	5.0	4.3	S	5
N23-6080	3.0	.	2.6	3.0	1.0	3.5	S	5

†The race 2 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines)

Type 1.2.5.7 and HG Type 2.5.7, respectively. Results for race 3 were omitted.

‡The root-knot nematode (RKN) species used in these tests were Meloidogyne incognita (southern root knot = SRK), M. arenaria (peanut root knot = PRK), and M. javanica (Javanese root-knot = JRK) MR = mixed reaction.

TABLE 129 - SEED YIELD (BUSHEL PER ACRE)
UNIFORM TEST VII-VIII 2025 †

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	69.5	55.6	68.1	47.3	59.5	63.2	51.0	59.2
AG72XF0	58.8	49.1	74.4	44.7	49.3	76.6	47.4	57.2
P70A62E	64.1	49.2	57.6	49.7	63.3	58.7	49.1	56.0
G21-245R2X	69.9	47.4	72.4	47.7	67.9	68.1	45.8	59.9
N8002	57.9	48.8	77.1	52.4	52.8	66.2	51.2	58.0
G18-12063	69.9	49.2	67.0	54.8	65.1	64.7	57.6	61.2
G19-12278	67.3	58.5	76.8	46.7	57.6	71.1	49.8	61.1
G20-4820R2	64.8	60.6	74.7	58.5	58.4	74.7	55.3	63.9
G20-8200	61.3	47.4	77.9	54.7	47.9	67.5	49.2	58.0
G20-8317	59.0	45.1	79.7	43.8	53.2	70.6	52.0	57.6
G20-9503	76.9	46.8	79.3	52.5	50.4	72.1	48.0	60.9
G20-9576	58.7	49.3	77.0	59.7	64.7	67.0	57.0	61.9
G21-13035LL	66.1	39.7	75.2	53.4	54.1	58.4	51.6	56.9
G21-2080	76.2	49.3	78.6	59.6	61.6	69.7	50.8	63.7
G21-4424	74.5	56.6	81.7	46.6	56.9	66.2	52.3	62.1
G21-5441	75.1	52.0	76.2	63.0	55.9	72.4	46.8	63.1
G21-6007	61.6	44.3	75.9	59.7	47.1	59.8	51.7	57.2
G21-6191	68.8	47.7	72.2	48.5	58.2	68.7	51.8	59.4
G21-8335R2	61.7	54.3	80.0	42.5	60.7	70.4	43.5	59.0
G23PR-1001BXF	65.5	55.2	80.0	56.3	59.0	67.1	50.1	61.9
G23PR-1034BE3	75.0	56.7	73.1	37.4	47.9	68.3	41.6	57.1
G24-10220BXF	67.8	50.9	76.3	47.5	58.6	70.0	53.3	60.6
N11-7472	54.7	37.7	72.2	43.5	51.1	62.6	43.0	52.1
N14-7142	57.8	47.0	78.3	62.4	62.1	51.5	48.2	58.2
N16-10927	66.5	54.1	78.4	49.9	66.2	73.4	48.5	62.4
N16-10962	70.2	49.0	79.8	48.3	56.2	70.7	44.4	59.8
N18-8116	49.5	51.9	77.2	56.7	60.6	71.9	48.0	59.4
N23-6009	68.9	52.7	80.6	49.1	60.0	72.7	48.1	61.7
N23-6047	53.2	50.6	73.2	52.9	60.8	70.4	45.7	58.1
N23-6080	60.9	51.9	76.7	52.4	54.5	61.2	48.3	58.0
Mean	65.1	50.3	75.6	51.4	57.4	67.5	49.4	59.5
LSD(0.05)	13.2	11.5	11.0	6.3	5.6	8.3	5.0	5.6
LSD(0.10)	11.0	9.6	9.2	5.2	4.7	6.9	4.2	4.7
CV(%)	12.4	14.0	8.9	7.5	5.9	7.5	6.2	11.8

†Location data not included in Test Mean due to CV > 15%: none

**TABLE 130 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
UNIFORM GROUP VII-VIII 2025**

STRAIN/ VARIETY	Fairhope, AL	Test Mean
SH 7418LL	10/17	10/17
AG72XF0	1	1
P70A62E	3	3
G21-245R2X	1	1
N8002	4	4
G18-12063	-2	-2
G19-12278	0	0
G20-4820R2	2	2
G20-8200	1	1
G20-8317	1	1
G20-9503	2	2
G20-9576	4	4
G21-13035LL	-1	-1
G21-2080	2	2
G21-4424	0	0
G21-5441	2	2
G21-6007	1	1
G21-6191	3	3
G21-8335R2	3	3
G23PR-1001BXF	-2	-2
G23PR-1034BE3	5	5
G24-10220BXF	-1	-1
N11-7472	2	2
N14-7142	4	4
N16-10927	2	2
N16-10962	2	2
N18-8116	4	4
N23-6009	4	4
N23-6047	4	4
N23-6080	1	1
Mean	2	2
LSD(0.05)	2	2
CV(%)	64	64

TABLE 131 - PLANT HEIGHT (INCHES)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	46	37	35	31	36	40	42	38
AG72XF0	45	34	31	35	26	37	43	36
P70A62E	51	40	40	33	33	36	29	38
G21-245R2X	45	34	33	35	32	37	42	36
N8002	44	33	35	33	29	37	32	35
G18-12063	50	38	35	33	36	41	42	39
G19-12278	38	32	31	28	32	38	39	34
G20-4820R2	44	37	34	32	30	39	34	36
G20-8200	44	36	35	28	30	41	42	37
G20-8317	46	35	32	30	28	37	43	36
G20-9503	49	41	33	32	32	40	46	39
G20-9576	48	38	36	34	30	41	45	39
G21-13035LL	47	37	34	35	31	41	32	37
G21-2080	45	35	32	30	29	35	37	35
G21-4424	43	36	29	27	32	33	35	34
G21-5441	45	36	36	35	31	39	39	37
G21-6007	48	39	38	36	29	42	47	40
G21-6191	49	38	39	36	35	46	43	41
G21-8335R2	52	44	38	38	28	45	42	42
G23PR-1001BXF	42	35	32	30	27	33	38	34
G23PR-1034BE3	45	37	38	34	28	36	43	37
G24-10220BXF	40	35	29	31	28	31	32	32
N11-7472	43	33	32	30	33	38	38	35
N14-7142	47	38	37	34	33	37	31	37
N16-10927	46	38	33	35	31	38	32	36
N16-10962	49	38	35	36	40	42	33	39
N18-8116	42	36	34	32	32	37	30	35
N23-6009	45	36	34	35	33	40	34	37
N23-6047	48	34	36	36	32	42	48	39
N23-6080	46	37	34	33	31	40	44	37
Mean	46	37	34	33	31	38	39	37
LSD(0.05)	4	4	4	.	.	5	.	3
CV(%)	6	7	7	.	.	6	.	8

TABLE 132 - PLANT LODGING (1-5)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	2.0	1.7	1.7	1.0	2.0	1.3	2.5	1.7
AG72XF0	1.3	1.0	1.0	1.0	1.0	1.0	1.5	1.1
P70A62E	3.0	3.0	3.7	1.8	1.0	3.3	3.8	2.8
G21-245R2X	1.7	1.0	1.7	1.5	1.5	1.0	2.3	1.5
N8002	3.3	2.0	2.7	2.0	1.8	3.0	3.0	2.6
G18-12063	2.3	1.3	2.3	1.5	2.0	1.7	2.5	1.9
G19-12278	2.3	2.0	1.3	1.0	1.5	1.0	3.3	1.8
G20-4820R2	2.0	2.0	2.0	1.2	1.0	1.3	2.3	1.7
G20-8200	2.0	1.7	1.0	1.2	1.3	1.0	2.0	1.4
G20-8317	2.3	1.3	1.0	1.2	1.3	1.7	2.0	1.6
G20-9503	2.0	1.3	1.0	1.2	1.3	1.0	2.5	1.5
G20-9576	2.0	1.7	1.7	1.8	1.3	1.0	2.0	1.6
G21-13035LL	2.0	1.3	2.0	1.2	1.8	1.7	2.5	1.8
G21-2080	2.0	1.7	1.0	1.2	1.5	1.0	3.0	1.6
G21-4424	1.0	1.3	1.0	1.0	1.3	1.0	2.0	1.2
G21-5441	2.0	1.7	2.0	1.5	1.3	2.7	2.8	2.0
G21-6007	2.0	1.7	2.3	1.2	1.5	1.7	2.3	1.8
G21-6191	2.3	1.3	2.0	1.5	1.8	2.0	2.3	1.9
G21-8335R2	1.7	2.0	1.3	1.2	1.3	1.3	2.3	1.6
G23PR-1001BXF	1.7	1.3	1.0	1.0	1.5	1.3	2.8	1.5
G23PR-1034BE3	1.3	1.7	1.3	1.5	1.0	1.3	2.3	1.5
G24-10220BXF	2.0	1.0	1.0	1.2	1.8	1.0	2.8	1.5
N11-7472	3.0	2.7	1.3	1.2	1.8	2.0	2.8	2.1
N14-7142	3.3	2.3	3.0	2.0	1.8	2.7	2.8	2.6
N16-10927	3.3	2.7	2.7	1.5	2.0	2.7	3.8	2.7
N16-10962	3.0	2.3	2.0	1.8	2.0	2.0	3.0	2.3
N18-8116	3.0	2.0	2.0	1.2	1.5	2.0	3.3	2.2
N23-6009	3.0	1.7	1.7	1.2	1.0	2.3	3.0	2.0
N23-6047	2.0	1.7	1.3	1.5	1.0	1.3	2.0	1.6
N23-6080	2.0	1.3	1.3	1.2	1.5	2.0	2.8	1.7
Mean	2.2	1.7	1.7	1.4	1.5	1.7	2.6	1.8
LSD(0.05)	0.7	1.0	0.7	0.5	0.6	0.7	0.7	0.4
CV(%)	18.7	37.1	23.9	18.5	20.2	26.7	14.1	28.0

TABLE 133 - SEED QUALITY (1-5)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	2.0	1.3	1.0	.	.	1.2	.	1.4
AG72XF0	2.2	1.0	1.0	.	.	1.5	.	1.4
P70A62E	2.0	1.5	2.0	.	.	3.0	.	2.1
G21-245R2X	1.7	1.5	1.0	.	.	1.7	.	1.5
N8002	2.0	1.0	1.0	.	.	2.2	.	1.5
G18-12063	1.8	1.2	1.0	.	.	1.0	.	1.3
G19-12278	1.8	1.0	1.0	.	.	1.5	.	1.3
G20-4820R2	2.2	1.8	1.0	.	.	1.2	.	1.5
G20-8200	2.0	1.2	1.0	.	.	1.2	.	1.3
G20-8317	2.0	1.2	1.0	.	.	1.3	.	1.4
G20-9503	2.0	1.3	1.0	.	.	1.7	.	1.5
G20-9576	2.2	1.0	1.0	.	.	1.5	.	1.4
G21-13035LL	2.0	1.5	1.0	.	.	1.5	.	1.5
G21-2080	1.7	1.2	1.0	.	.	1.2	.	1.3
G21-4424	1.7	1.2	1.0	.	.	1.0	.	1.2
G21-5441	2.0	1.2	1.0	.	.	1.5	.	1.4
G21-6007	2.3	1.2	1.0	.	.	1.2	.	1.4
G21-6191	1.8	1.0	1.0	.	.	1.3	.	1.3
G21-8335R2	1.8	1.0	1.0	.	.	1.5	.	1.3
G23PR-1001BXF	2.0	1.2	1.0	.	.	1.7	.	1.5
G23PR-1034BE3	2.2	1.0	2.0	.	.	2.0	.	1.8
G24-10220BXF	2.2	1.2	1.0	.	.	1.0	.	1.3
N11-7472	1.7	2.3	1.3	.	.	1.5	.	1.7
N14-7142	2.2	1.0	1.0	.	.	1.5	.	1.4
N16-10927	2.0	1.3	1.0	.	.	1.7	.	1.5
N16-10962	2.0	1.3	1.3	.	.	1.7	.	1.6
N18-8116	2.2	1.0	1.0	.	.	2.0	.	1.5
N23-6009	2.7	1.0	1.0	.	.	1.8	.	1.6
N23-6047	1.7	1.0	1.0	.	.	1.5	.	1.3
N23-6080	2.2	1.3	1.0	.	.	1.2	.	1.4
Mean	2.0	1.2	1.1	.	.	1.5	.	1.5
LSD(0.05)	0.6	0.4	0.2	.	.	0.5	.	0.4
CV(%)	18.4	18.7	13.5	.	.	19.7	.	24.7

TABLE 134 - SEED SIZE (GRAMS PER 100 SEED)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	16.6	17.9	16.9	14.5	17.0	16.6	14.4	16.2
AG72XF0	14.0	14.6	15.0	12.5	14.2	14.5	12.3	13.8
P70A62E	16.2	16.2	19.5	12.9	15.5	15.6	13.6	15.7
G21-245R2X	18.5	17.8	19.4	15.3	17.0	17.6	14.0	17.1
N8002	16.5	15.6	18.3	13.4	14.0	15.9	13.4	15.3
G18-12063	17.0	16.1	15.4	12.1	12.8	15.1	13.2	14.5
G19-12278	14.6	14.5	14.3	11.9	12.5	13.9	12.4	13.4
G20-4820R2	17.0	17.4	16.8	15.7	16.4	16.0	16.0	16.4
G20-8200	15.6	14.5	15.6	12.4	12.6	14.5	12.9	14.0
G20-8317	15.1	13.7	16.3	11.5	12.4	15.2	12.7	13.9
G20-9503	15.4	15.2	16.5	11.5	12.9	15.8	12.9	14.3
G20-9576	14.3	13.8	16.3	12.8	13.5	14.6	12.6	13.9
G21-13035LL	17.0	17.1	17.5	14.5	17.0	16.7	15.8	16.5
G21-2080	17.7	16.7	17.9	13.1	15.2	17.9	14.3	16.1
G21-4424	16.1	14.9	16.4	12.1	12.8	16.8	12.8	14.6
G21-5441	20.0	18.3	19.3	15.4	15.5	17.4	15.6	17.4
G21-6007	15.5	15.9	16.1	14.0	16.0	14.4	13.5	15.0
G21-6191	17.9	15.8	17.7	13.9	15.2	16.5	12.5	15.7
G21-8335R2	16.4	15.7	15.5	13.7	13.3	14.3	13.6	14.6
G23PR-1001BXF	18.2	17.3	18.6	13.8	16.3	17.3	14.4	16.6
G23PR-1034BE3	14.3	13.2	14.9	12.8	11.3	13.5	12.3	13.2
G24-10220BXF	15.1	14.5	15.2	10.9	12.9	15.4	13.4	13.9
N11-7472	18.2	17.8	19.9	15.9	15.6	18.3	14.4	17.2
N14-7142	17.3	16.9	18.5	14.3	15.0	15.5	14.2	16.0
N16-10927	14.4	13.7	16.2	10.7	11.2	14.5	10.9	13.2
N16-10962	15.6	14.3	15.6	12.3	12.6	16.1	12.7	14.2
N18-8116	19.2	18.1	21.0	15.5	16.6	18.4	15.1	17.7
N23-6009	15.0	14.7	16.9	12.0	12.0	14.7	12.5	14.0
N23-6047	18.2	19.0	18.9	15.5	16.0	17.2	14.0	17.0
N23-6080	15.0	16.7	17.8	12.8	14.8	14.8	13.6	15.1
Mean	16.4	15.9	17.1	13.3	14.4	15.8	13.5	15.2
LSD(0.05)	1.1	1.3	1.9	0.9	0.8	1.4	1.2	0.8
CV(%)	4.2	5.1	6.9	3.3	2.8	5.3	4.4	6.6

TABLE 135 - OIL (%)†
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	18.6	18.9	20.1	18.7	18.0	19.6	18.1	18.9
AG72XF0	19.6	19.1	20.3	18.5	19.3	20.0	18.8	19.4
P70A62E	19.1	18.8	18.9	19.0	19.0	19.5	18.2	18.9
G21-245R2X	18.3	18.0	19.9	19.6	18.6	18.9	18.3	18.8
N8002	18.7	18.7	19.3	19.0	19.0	18.5	17.8	18.7
G18-12063	17.5	18.1	17.8	17.0	18.2	18.0	17.1	17.7
G19-12278	19.5	19.9	20.7	19.5	19.8	20.3	19.4	19.9
G20-4820R2	18.8	19.0	20.2	18.6	19.0	20.3	19.0	19.3
G20-8200	18.9	19.4	20.1	19.0	19.2	19.6	18.9	19.3
G20-8317	19.9	20.0	20.7	20.0	19.6	20.3	19.3	20.0
G20-9503	18.8	18.6	19.5	17.4	19.9	19.3	18.3	18.8
G20-9576	19.1	19.3	19.8	19.0	19.1	19.6	18.8	19.2
G21-13035LL	18.8	19.5	20.2	18.3	18.3	19.8	18.4	19.0
G21-2080	18.5	19.0	19.5	19.2	18.4	19.5	18.2	18.9
G21-4424	18.3	19.2	19.7	17.2	19.0	18.9	17.9	18.6
G21-5441	17.6	18.0	19.4	18.8	17.3	18.5	17.4	18.1
G21-6007	19.1	19.4	20.7	19.9	19.2	20.4	18.5	19.6
G21-6191	14.5	19.4	20.1	19.0	19.5	19.9	18.8	18.7
G21-8335R2	19.0	19.0	20.4	17.5	19.0	20.0	18.0	19.0
G23PR-1001BXF	17.8	19.0	20.1	18.9	18.3	19.1	18.0	18.7
G23PR-1034BE3	19.7	19.7	20.7	19.0	20.6	20.5	19.8	20.0
G24-10220BXF	18.8	19.2	19.9	18.7	19.7	19.1	18.2	19.1
N11-7472	18.4	18.3	19.3	18.5	18.1	19.1	17.5	18.5
N14-7142	18.8	18.9	20.1	18.5	19.1	19.3	17.5	18.9
N16-10927	18.7	18.7	19.4	18.0	19.0	19.2	17.8	18.7
N16-10962	19.1	19.5	19.8	17.9	18.7	19.1	18.7	19.0
N18-8116	18.9	19.3	19.7	19.1	19.5	19.7	18.3	19.2
N23-6009	18.4	19.2	19.5	18.1	19.3	19.2	17.2	18.7
N23-6047	20.1	20.5	21.3	20.0	19.7	21.2	19.2	20.3
N23-6080	19.0	19.5	19.8	19.3	18.7	19.1	18.6	19.1
Mean	18.7	19.1	19.9	18.7	19.0	19.5	18.3	19.0
LSD(0.05)	.	.	.	.	.	.	.	0.6
CV(%)	.	.	.	.	.	.	.	2.7

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

TABLE 136 - PROTEIN (%)†
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	36.3	36.1	36.1	36.2	36.4	35.2	36.9	36.2
AG72XF0	33.3	35.3	34.0	36.7	33.7	33.3	34.2	34.4
P70A62E	34.3	35.6	36.0	35.8	35.5	33.7	36.1	35.3
G21-245R2X	35.4	35.4	34.5	34.4	34.4	33.5	35.1	34.7
N8002	34.7	36.3	35.1	35.0	34.5	35.1	35.7	35.2
G18-12063	37.1	36.3	37.8	37.3	35.5	36.0	36.5	36.6
G19-12278	33.7	34.0	33.5	35.1	33.3	32.8	33.6	33.7
G20-4820R2	34.0	33.7	33.9	35.0	33.6	32.3	33.6	33.7
G20-8200	36.3	35.7	35.5	35.5	34.6	35.2	35.2	35.4
G20-8317	35.8	35.5	36.0	35.8	34.6	34.5	36.0	35.5
G20-9503	34.3	35.3	36.0	37.2	32.7	33.9	35.4	35.0
G20-9576	35.5	34.9	35.4	36.2	34.7	34.8	35.6	35.3
G21-13035LL	36.4	35.9	35.9	37.4	36.3	34.3	36.6	36.1
G21-2080	37.4	36.6	36.9	36.1	35.2	36.1	37.6	36.6
G21-4424	36.1	35.1	35.3	37.5	33.9	35.7	36.1	35.7
G21-5441	36.4	36.0	35.2	34.6	33.3	34.3	36.0	35.1
G21-6007	36.5	36.6	34.7	35.0	34.9	34.2	37.2	35.6
G21-6191	42.7	35.7	35.1	36.2	35.1	34.1	36.2	36.4
G21-8335R2	36.4	36.4	34.3	38.0	36.0	34.2	37.3	36.1
G23PR-1001BXF	36.0	34.6	34.1	34.7	34.9	33.7	35.4	34.8
G23PR-1034BE3	35.7	35.2	35.1	36.8	32.9	33.5	35.0	34.9
G24-10220BXF	35.4	34.8	35.5	35.8	34.4	35.3	35.0	35.2
N11-7472	35.6	35.0	35.7	36.0	35.8	34.1	36.1	35.5
N14-7142	35.6	36.1	33.7	36.3	35.0	34.3	37.2	35.5
N16-10927	34.7	34.7	34.5	36.3	33.1	33.9	35.5	34.7
N16-10962	34.0	34.6	35.5	37.1	35.4	34.4	35.5	35.2
N18-8116	35.1	33.7	35.4	34.4	33.6	34.2	35.2	34.5
N23-6009	35.9	35.1	34.4	36.6	33.5	33.5	35.6	34.9
N23-6047	34.8	34.3	34.1	34.7	34.1	32.2	35.3	34.2
N23-6080	36.0	35.8	35.3	35.9	35.2	35.2	35.7	35.6
Mean	35.7	35.3	35.2	36.0	34.5	34.3	35.7	35.2
LSD(0.05)	.	.	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	.	.	2.4

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

TABLE 137 - ESTIMATED MEAL PROTEIN (%)†
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	48.4	48.4	49.1	48.4	48.3	47.6	49.0	48.4
AG72XF0	45.0	47.4	46.4	48.9	45.4	45.2	45.8	46.3
P70A62E	46.1	47.7	48.2	48.0	47.6	45.5	48.0	47.3
G21-245R2X	47.1	46.9	46.8	46.5	45.9	44.9	46.7	46.4
N8002	46.4	48.5	47.3	47.0	46.3	46.8	47.2	47.1
G18-12063	48.8	48.2	50.0	48.8	47.2	47.7	47.9	48.4
G19-12278	45.5	46.1	45.9	47.4	45.1	44.7	45.3	45.7
G20-4820R2	45.5	45.2	46.2	46.7	45.1	44.1	45.1	45.4
G20-8200	48.6	48.1	48.3	47.6	46.5	47.6	47.2	47.7
G20-8317	48.6	48.2	49.3	48.6	46.8	47.1	48.5	48.2
G20-9503	45.9	47.1	48.6	49.0	44.4	45.7	47.1	46.8
G20-9576	47.6	47.0	48.0	48.6	46.6	47.0	47.7	47.5
G21-13035LL	48.7	48.5	48.9	49.8	48.3	46.5	48.8	48.5
G21-2080	49.8	49.1	49.8	48.6	46.9	48.7	50.0	49.0
G21-4424	48.0	47.2	47.8	49.2	45.5	47.8	47.8	47.6
G21-5441	48.0	47.7	47.5	46.3	43.8	45.7	47.4	46.6
G21-6007	49.1	49.4	47.6	47.5	46.9	46.7	49.6	48.1
G21-6191	54.2	48.1	47.7	48.6	47.4	46.3	48.5	48.7
G21-8335R2	48.9	48.8	46.8	50.1	48.3	46.5	49.4	48.4
G23PR-1001BXF	47.6	46.4	46.4	46.5	46.4	45.3	46.9	46.5
G23PR-1034BE3	48.3	47.6	48.1	49.4	45.0	45.8	47.4	47.4
G24-10220BXF	47.3	46.8	48.2	47.9	46.6	47.4	46.5	47.2
N11-7472	47.4	46.6	48.1	48.0	47.5	45.8	47.6	47.3
N14-7142	47.6	48.4	45.8	48.4	47.0	46.2	49.0	47.5
N16-10927	46.4	46.4	46.5	48.1	44.4	45.6	46.9	46.3
N16-10962	45.6	46.7	48.1	49.1	47.3	46.2	47.5	47.2
N18-8116	47.0	45.4	47.9	46.2	45.4	46.3	46.8	46.4
N23-6009	47.8	47.2	46.4	48.6	45.1	45.1	46.7	46.7
N23-6047	47.4	46.9	47.1	47.1	46.2	44.4	47.5	46.7
N23-6080	48.3	48.3	47.8	48.4	47.1	47.3	47.7	47.8
Mean	47.7	47.5	47.7	48.1	46.3	46.3	47.6	47.3
LSD(0.05)	.	.	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	.	.	1.9

† Estimated meal protein percentage is reported on a 13% moisture basis.

SUMMARY OF SEED FATTY ACIDS (%)**UNIFORM TEST VII-VIII 2025 †**

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
SH 7418LL	11.9	3.5	22.2	53.6	8.8
AG72XF0	12.0	3.7	22.4	53.4	8.6
G20-8200	7.9	2.8	76.8	9.4	3.0
G20-8317	7.5	3.0	79.7	7.4	2.5
G21-8335R2	8.2	3.1	77.0	8.8	2.9
Mean	9.5	3.2	55.6	26.5	5.1
LSD(0.05)	0.3	0.2	2.1	2.0	0.7
CV(%)	2.9	5.3	3.4	6.6	11.2

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

SEED PALMITIC ACID (%)**UNIFORM GROUP VII-VIII 2025**

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	11.9	11.4	12.4	11.5	11.7	12.3	12.2	11.9
AG72XF0	12.0	12.3	12.4	11.4	11.5	12.3	12.0	12.0
G20-8200	8.1	8.4	7.8	7.1	7.8	8.2		7.9
G20-8317	7.7	7.3	7.6	6.7	7.5	7.5	8.0	7.5
G21-8335R2	8.5	7.9	8.0	7.9	8.1	8.2	8.5	8.2
Mean	9.7	9.4	9.6	8.9	9.3	9.7	10.2	9.5
LSD(0.05)	.	.	.	.	.	.	.	0.3
CV(%)	.	.	.	.	.	.	.	2.9

SEED STEARIC ACID (%)**UNIFORM GROUP VII-VIII 2025**

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	3.6	3.7	3.4	3.7	3.2	3.2	3.5	3.5
AG72XF0	3.5	4.0	3.4	4.5	3.6	3.3	3.5	3.7
G20-8200	2.8	3.1	2.8	3.2	2.6	2.7		2.8
G20-8317	3.1	3.3	2.7	3.2	2.9	2.8	3.0	3.0
G21-8335R2	3.2	3.3	2.9	3.2	3.0	3.1	3.3	3.1
Mean	3.2	3.5	3.0	3.6	3.0	3.0	3.3	3.2
LSD(0.05)	.	.	.	.	.	.	.	0.2
CV(%)	.	.	.	.	.	.	.	5.3

SEED OLEIC ACID (%)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	23.2	23.2	24.3	22.3	20.6	20.7	21.2	22.2
AG72XF0	21.8	22.4	24.4	23.9	21.4	22.0	20.6	22.4
G20-8200	77.4	68.9	82.0	79.5	76.0	78.5		76.8
G20-8317	78.3	79.9	82.7	80.7	78.8	80.2	77.3	79.7
G21-8335R2	76.4	77.8	80.4	77.7	76.1	77.3	73.7	77.0
Mean	55.4	54.4	58.8	56.8	54.6	55.7	48.2	55.6
LSD(0.05)	.	.	.	.	.	.	.	2.1
CV(%)	.	.	.	.	.	.	.	3.4

SEED LINOLEIC ACID (%)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	51.8	52.1	52.5	54.7	55.0	55.0	53.7	53.6
AG72XF0	52.9	52.8	52.7	52.6	55.1	53.3	54.7	53.4
G20-8200	9.1	15.9	4.6	7.7	10.2	8.2		9.4
G20-8317	7.8	7.5	5.1	7.0	8.6	6.8	8.8	7.4
G21-8335R2	9.3	7.9	5.6	8.6	9.8	8.4	11.9	8.8
Mean	26.1	27.2	24.1	26.1	27.7	26.3	32.3	26.5
LSD(0.05)	.	.	.	.	.	.	.	2.0
CV(%)	.	.	.	.	.	.	.	6.6

SEED LINOLENIC ACID (%)
UNIFORM GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Athens, GA(B)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	9.4	9.5	7.3	7.7	9.5	8.8	9.4	8.8
AG72XF0	9.9	8.5	7.2	7.5	8.5	9.2	9.3	8.6
G20-8200	2.7	3.9	2.8	2.5	3.4	2.5		3.0
G20-8317	3.2	2.1	2.0	2.3	2.3	2.7	2.8	2.5
G21-8335R2	2.7	3.2	3.2	2.6	2.9	3.0	2.6	2.9
Mean	5.6	5.4	4.5	4.5	5.3	5.2	6.0	5.1
LSD(0.05)	.	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	.	11.2

INTENTIONALLY BLANK

TABLE 138 - PARENTAGE OF ENTRIES
PRELIMINARY GROUP VII-VIII 2025

Ent	Strain/Variety	Parentage	Source	Fn	Trans- genic†	Special Traits‡
1	SH 7418LL	Commercial check	check		LL	
2	AG72XF0	Commercial check	check		XF	
3	P70A62E	Commercial check	check		E3	
4	G21-245R2X	Commercial check	check			
5	N8002	Commercial check	check		Conv	
6	G21-14121LL	G13LL-44 X G16LL-10374	Zenglu Li		LL	
7	G21-6838	G17PR-1223HOLL X [R12-514 X Benning HP]	Zenglu Li		Conv	HOLN-protein
8	G21-6847	G17PR-1223HOLL X [Woodruff X Benning HP]	Zenglu Li		Conv	HOLN-high protein
9	G21-6848	G17PR-1223HOLL X [Woodruff X Benning HP]	Zenglu Li		Conv	HOLN-high protein
10	G21-7035	G17PR-1223HOLL x [N05-7432 x Benning HP]	Zenglu Li		Conv	HOLN
11	G22-155	G00-3880 (5) x [G00-3213 (3) x PI416937] (Lg-H wilt)	Zenglu Li		Conv	Drought Tolerance
12	G22-158R2	G13-2114R2 (2) x Benning EMGH	Zenglu Li		Conv	
13	G22-3279HO	G15PR-340 X G17PR-1223HOLL	Zenglu Li		Conv	HOLN
14	G22-3283HO	G15PR-340 X G17PR-1223HOLL	Zenglu Li		Conv	
15	G22-4640	G11-7013 X Benning EMGH	Zenglu Li		Conv	
16	G22-493	Woodruff x 19F2D3D-506	Zenglu Li		Conv	
17	G22-5081	Woodruff X PI556833 (Hartz 7110)	Zenglu Li		Conv	
18	G22-5092	Woodruff X PI556833 (Hartz 7110)	Zenglu Li		Conv	
19	G22-5228	G14-8109 X G11-7013	Zenglu Li		Conv	
20	G22-5254	G14-8109 X G11-7013	Zenglu Li		Conv	
21	G22-5280	G14-8109 X G11-7013	Zenglu Li		Conv	
22	G22-5414	G17-11319 X R13-1409	Zenglu Li		Conv	
23	G22-5546	G12-6543 X N10-7412	Zenglu Li		Conv	
24	G22-5584	G12-6543 X G14-8109	Zenglu Li		Conv	
25	G22-5649	G12-6543 X G14-8109	Zenglu Li		Conv	
26	G22-5652	G12-6543 X G14-8109	Zenglu Li		Conv	
27	G22-97HO	G17PR-1207 x [G16-8641(2) X G17-13211HOLL]	Zenglu Li		Conv	HOLN
28	G23-6024E3	G00-3880 x [Woodruff (3) x Enlist CTV-DVR-1001]	Zenglu Li		E3	
29	G23-D5BXF	G21-241R2X (4) x XtendFlex	Zenglu Li		XF	
30	G23PR-1076E3	G18-12231 (4) x G21-209E3	Zenglu Li		E3	
31	G24-10152BXF	G14-4316R2 (4) x XtendFlex	Zenglu Li		XF	
32	N21-1085	N09-13890 x GA SF 114 QTL	Fallen		Conv	
33	N21-1177	N10-7277 x GA SF 114 QTL	Fallen		Conv	
34	N23-6012	N8002 x MUSEN	Fallen		Conv	
35	N23-6069	MUSEN x N10-7277	Fallen		Conv	
36	N23-6071	G00-3213 x N06-7194	Fallen		Conv	
37	N23-6072	G00-3213 x N09-13890	Fallen		Conv	
38	N23-6084	MUSEN x N06-7194	Fallen		Conv	
39	N23-6094	MUSEN x N06-7543	Fallen		Conv	
40	N23-6099	MUSEN x N06-7543	Fallen		Conv	

† Conv= Conventional(non-transgenic), E3= Enlist E3®, LL= Liberty Link®, RR1= Roundup Ready®,

RR2=Roundup Ready 2 Yield®, RR2X= Roundup Ready 2 Xtend®, and XF= Roundup Ready 2 XtendFlex®

‡ AA= modified amino acids, DNC= Do not cross with this, FLS= Frogeye leaf spot resistance, LJ= Long juvenile,

LN= low linolenic acid, LP= low phytate, HO= high oleic acid, HOLN= high oleic acid/low linolenic acid,

SC= Southern stem canker, SCN= Soybean cyst nematode resistance, SR= Soybean rust resistance,

and STS= sulfonyleurea tolerant

**TABLE 139 - GENERAL SUMMARY OF PERFORMANCE
PRELIMINARY TEST VII-VIII 2025**

STRAIN/ VARIETY	SEED YIELD†	RANK	AVG. RANK	MAT. INDEX	LOD	HT	SCN Cyst Score (1-5)‡			SC RATING	SC SCORE
							Race 2	Race 3	Race 5		
SH 7418LL	57.0	15	16	0	1.5	38	3.3	.	2.6	S	5
AG72XF0	57.7	9	14	1	1.1	37	1.8	.	1.6	MR	2
P70A62E	54.3	26	18	3	2.5	39	3.6	.	3.6	R	1
G21-245R2X	58.6	7	13	1	1.5	35	2.6	.	3.8	R	1
N8002	59.7	3	9	3	2.6	39	3.5	.	2.5	S	5
G21-14121LL	60.1	1	13	1	1.6	36	2.6	.	4.2	S	5
G21-6838	51.0	36	31	0	1.4	35	2.6	.	3.4	R	1
G21-6847	47.9	40	34	0	1.8	40	3.8	.	3.8	S	5
G21-6848	49.7	39	33	1	1.5	41	2.2	.	2.4	S	5
G21-7035	52.4	32	28	2	1.5	39	3.2	.	3.4	MS	4
G22-155	57.5	11	17	3	1.7	41	3.6	.	3.8	MS	4
G22-158R2	58.6	6	13	0	1.4	38	2.4	.	3.0	R	1
G22-3279HO	54.5	25	22	2	1.7	40	4.2	.	2.4	S	5
G22-3283HO	57.6	10	15	2	1.7	41	2.0	.	2.8	S	5
G22-4640	53.8	27	24	2	2.4	41	2.8	.	3.6	R	1
G22-493	56.6	16	18	2	1.7	40	4.6	.	2.8	SS	3
G22-5081	58.2	8	13	3	1.2	36	4.0	.	2.8	R	1
G22-5092	55.7	20	20	2	2	39	2.8	.	2.0	MS	4
G22-5228	51.3	35	29	3	1.0	39	2.5	.	1.4	R	1
G22-5254	56.1	17	20	3	1.2	38	4.0	.	1.6	MR	2
G22-5280	56.0	18	18	2	1.0	38	3.5	.	1.8	R	1
G22-5414	57.2	14	16	3	1.4	37	3.3	.	1.8	R	1
G22-5546	52.9	31	26	1	2.0	37	3.0	.	1.6	S	5
G22-5584	57.2	13	17	2	1.3	39	3.6	.	2.0	S	5
G22-5649	54.6	24	23	2	1.6	40	2.6	.	2.2	S	5
G22-5652	56.0	19	18	1	1.2	39	3.0	.	3.0	R	1
G22-97HO	54.6	23	22	1	1.3	35	3.0	.	3.0	R	1
G23-6024E3	59.4	4	12	3	1.7	38	4.3	.	1.4	S	5
G23-D5BXF	59.8	2	12	1	1.3	35	3.5	.	1.2	R	1
G23PR-1076E3	53.7	28	25	4	2.1	43	2.6	.	1.6	S	5
G24-10152BXF	57.2	12	16	1	1.8	37	.	.	1.0	MS	4
N21-1085	58.7	5	12	2	2.0	36	5.0	.	1.6	R	1
N21-1177	50.5	38	29	1	1.7	35	4.2	.	1.8	R	1
N23-6012	55.0	21	22	3	2.6	36	4.6	.	1.6	MR	2
N23-6069	50.9	37	28	1	2.6	38	3.8	.	2.0	R	1
N23-6071	52.1	33	27	2	1.9	37	4.4	.	1.6	S	5
N23-6072	53.6	29	19	0	1.5	40	4.3	.	1.2	S	5
N23-6084	53.5	30	25	3	2.6	38	2.4	.	1.4	MS	4
N23-6094	51.8	34	28	2	2.4	38	4.4	.	2.2	R	1
N23-6099	54.8	22	23	4	2.5	39	5.0	.	1.2	S	5
Mean	55.2	.	.	2	1.7	38	.	.	.	.	.
LSD(0.05)	5.8	.	.	3	0.5	3	.	.	.	.	.
LSD(0.10)	4.9	.	.	.	.	.	.	.	.	.	.
CV(%)	11.7	.	.	99	31.0	9	.	.	.	.	.

†Data not included in the mean due to CV >15%: none

‡The race 2 and 5 SCN populations used in these tests were typed as HG (Heterodera glycines)

Type 1.2.5.7 and HG Type 2.5.7, respectively.

TABLE 140 - GENERAL SUMMARY OF PERFORMANCE (continued)
PRELIMINARY TEST VII-VIII 2025

STRAIN/ VARIETY	SEED QUALITY	SEED SIZE	PROTEIN§ %	OIL§ %	MEAL PRO%	FL COLOR	PUB. COLOR	POD COLOR
SH 7418LL	1.1	16.8	36.2	18.8	48.4			
AG72XF0	1.2	14.0	34.3	19.4	46.2	W	Tw	Br
P70A62E	2.7	15.9	34.9	19.1	46.9			
G21-245R2X	1.4	17.3	34.5	18.7	46.2			
N8002	1.8	15.5	35.8	18.4	47.6			
G21-14121LL	1.0	16.1	35.1	19.0	47.1	W	T	T
G21-6838	1.0	13.9	40.7	18.1	54.1	P	T	T
G21-6847	1.0	14.1	40.6	17.9	53.7	W	T	T
G21-6848	1.1	13.5	40.6	17.6	53.5	W	T	T
G21-7035	1.2	16.4	36.5	19.7	49.4	W	T	T
G22-155	1.1	15.1	35.3	19.2	47.4	P	T	T
G22-158R2	1.3	16.2	34.2	19.4	46.1	P	T	T
G22-3279HO	1.1	14.9	36.5	18.9	48.9	W	T	T
G22-3283HO	1.1	14.9	36.6	18.8	49.1	W	T	T
G22-4640	1.4	16.6	35.7	19.2	48.0	W	T	T
G22-493	1.3	16.2	34.7	19.5	46.9	MX	T	T
G22-5081	1.3	15.8	36.3	18.6	48.5	W	T	T
G22-5092	1.2	16.6	36.2	18.9	48.5	W	T	T
G22-5228	1.7	16.8	35.0	19.5	47.3	W	T	T
G22-5254	1.5	18.9	34.6	19.0	46.5	W	T	T
G22-5280	1.6	18.1	34.1	19.7	46.1	W	T	T
G22-5414	1.3	14.1	34.7	19.9	47.0	W	T	T
G22-5546	1.0	16.3	34.3	19.9	46.5	W	T	T
G22-5584	1.0	16.3	33.6	20.1	45.7	W	T	T
G22-5649	1.1	15.5	35.0	19.7	47.3	W	T	T
G22-5652	1.1	15.3	34.2	19.9	46.4	W	T	T
G22-97HO	1.4	15.1	37.5	19.6	50.7	W	T	T
G23-6024E3	2.7	15.0	34.4	20.3	47.0	P	T	T
G23-D5BXF	1.7	16.2	34.9	18.3	46.4	P	T	T
G23PR-1076E3	1.8	14.4	35.5	18.5	47.4	W	G	T
G24-10152BXF	1.3	16.5	32.9	19.7	44.5			
N21-1085	1.1	16.4	39.3	17.0	51.5	W	G	
N21-1177	1.3	15.7	38.7	18.0	51.2	P	T	
N23-6012	1.1	13.6	35.5	17.9	47.0	W	G	
N23-6069	1.3	13.2	34.8	19.1	46.8	W	G	
N23-6071	1.2	17.4	35.9	18.6	48.0	W	T	
N23-6072	1.2	16.2	35.2	19.5	47.5	P	T	
N23-6084	1.6	14.9	35.0	19.3	47.1	W	G	
N23-6094	1.2	14.3	36.0	18.4	47.9	W	G	
N23-6099	1.6	16.5	35.7	19.1	48.0	W	G	
Mean	1.3	15.7	35.8	19.0	48.0			
LSD(0.05)	0.4	1.0	0.9	0.5	1.0			
LSD(0.10)	.	.	.	.	.			
CV(%)	25.5	7.1	2.2	2.2	1.9			

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

TABLE 141 - SEED YIELD (BUSHELS PER ACRE)
PRELIMINARY GROUP VII-VIII 2025 †

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	63.7	65.3	57.9	40.4	69.2	45.2	57.0
AG72XF0	72.9	73.6	49.0	28.1	75.9	46.7	57.7
P70A62E	67.5	48.7	53.1	43.6	62.7	50.2	54.3
G21-245R2X	74.7	68.4	53.0	44.4	71.5	39.6	58.6
N8002	67.8	73.0	57.5	43.5	69.4	47.2	59.7
G21-14121LL	67.0	71.5	61.5	53.3	65.5	43.3	60.1
G21-6838	62.5	60.8	49.8	26.9	65.8	40.2	51.0
G21-6847	52.1	59.2	41.6	35.4	58.2	41.2	47.9
G21-6848	55.4	65.7	45.1	32.5	64.5	34.8	49.7
G21-7035	60.7	68.6	45.3	33.7	61.5	44.7	52.4
G22-155	69.6	61.9	48.9	39.0	79.2	46.1	57.5
G22-158R2	68.5	75.4	47.0	37.3	74.6	48.9	58.6
G22-3279HO	66.4	64.6	46.2	30.0	71.2	47.7	54.5
G22-3283HO	75.4	69.4	49.1	33.2	72.0	46.7	57.6
G22-4640	58.8	70.9	53.8	40.7	61.0	37.6	53.8
G22-493	64.1	72.9	51.3	43.6	64.5	43.6	56.6
G22-5081	71.0	75.0	56.7	36.8	62.0	47.8	58.2
G22-5092	73.3	72.6	49.7	39.0	64.7	34.8	55.7
G22-5228	68.5	67.5	43.2	27.6	63.9	36.8	51.3
G22-5254	68.1	68.0	47.6	40.3	75.4	37.0	56.1
G22-5280	72.7	62.1	54.3	33.9	70.2	42.9	56.0
G22-5414	67.3	72.8	50.4	37.3	72.0	43.3	57.2
G22-5546	66.0	65.3	50.4	34.0	67.4	34.4	52.9
G22-5584	63.4	68.8	57.2	41.6	70.0	42.4	57.2
G22-5649	64.4	70.3	53.7	33.0	63.0	42.9	54.6
G22-5652	68.4	62.7	47.0	43.8	68.3	45.6	56.0
G22-97HO	70.4	68.9	43.0	34.3	72.7	37.9	54.6
G23-6024E3	62.1	75.4	54.7	48.9	70.8	44.4	59.4
G23-D5BXF	77.1	71.1	51.6	37.4	79.0	42.6	59.8
G23PR-1076E3	59.7	78.5	52.3	34.7	57.8	39.2	53.7
G24-10152BXF	66.6	61.8	50.3	43.2	72.6	49.0	57.2
N21-1085	69.4	76.3	51.0	42.7	67.8	44.7	58.7
N21-1177	58.2	64.6	53.2	25.8	67.6	33.6	50.5
N23-6012	65.8	63.5	49.3	43.7	66.5	41.4	55.0
N23-6069	63.3	52.2	41.3	38.2	67.6	42.8	50.9
N23-6071	60.7	56.1	51.0	42.3	62.1	40.6	52.1
N23-6072	70.1	46.7	50.6	38.4	70.0	45.7	53.6
N23-6084	57.1	63.9	46.6	42.4	67.1	44.1	53.5
N23-6094	64.3	63.4	51.5	34.7	55.5	41.2	51.8
N23-6099	63.2	63.9	56.7	36.0	67.1	41.9	54.8
Mean	66.0	66.5	50.6	37.9	67.7	42.5	55.2
LSD(0.05)	9.2	12.7	5.1	4.0	7.9	4.8	5.8
LSD(0.10)	7.7	10.6	4.3	3.3	6.6	4.0	4.9
CV(%)	8.6	11.7	6.2	6.4	7.2	7.0	11.7

† Data not included in the test mean due to CV > 15%: none

**TABLE 142 - RELATIVE MATURITY (DAYS EARLIER (-) OR LATER (+) THAN ENTRY 1)
PRELIMINARY GROUP VII-VIII 2025**

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	.	10/14	.	.	.	.	10/14
AG72XF0	.	3	.	.	.	.	3
P70A62E	.	5	.	.	.	.	5
G21-245R2X	.	1	.	.	.	.	1
N8002	.	6	.	.	.	.	6
G21-14121LL	.	1	.	.	.	.	1
G21-6838	.	0	.	.	.	.	0
G21-6847	.	0	.	.	.	.	0
G21-6848	.	2	.	.	.	.	2
G21-7035	.	3	.	.	.	.	3
G22-155	.	5	.	.	.	.	5
G22-158R2	.	1	.	.	.	.	1
G22-3279HO	.	4	.	.	.	.	4
G22-3283HO	.	4	.	.	.	.	4
G22-4640	.	3	.	.	.	.	3
G22-493	.	4	.	.	.	.	4
G22-5081	.	5	.	.	.	.	5
G22-5092	.	3	.	.	.	.	3
G22-5228	.	5	.	.	.	.	5
G22-5254	.	7	.	.	.	.	7
G22-5280	.	4	.	.	.	.	4
G22-5414	.	6	.	.	.	.	6
G22-5546	.	3	.	.	.	.	3
G22-5584	.	5	.	.	.	.	5
G22-5649	.	5	.	.	.	.	5
G22-5652	.	2	.	.	.	.	2
G22-97HO	.	2	.	.	.	.	2
G23-6024E3	.	6	.	.	.	.	6
G23-D5BXF	.	2	.	.	.	.	2
G23PR-1076E3	.	8	.	.	.	.	8
G24-10152BXF	.	2	.	.	.	.	2
N21-1085	.	3	.	.	.	.	3
N21-1177	.	1	.	.	.	.	1
N23-6012	.	7	.	.	.	.	7
N23-6069	.	2	.	.	.	.	2
N23-6071	.	4	.	.	.	.	4
N23-6072	.	0	.	.	.	.	0
N23-6084	.	6	.	.	.	.	6
N23-6094	.	3	.	.	.	.	3
N23-6099	.	7	.	.	.	.	7
Mean	.	4	.	.	.	.	4
LSD(0.05)	.	2	.	.	.	.	2
CV(%)	.	41	.	.	.	.	41

TABLE 143 - PLANT HEIGHT (INCHES)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	46	34	30	36	38	41	38
AG72XF0	46	33	30	29	37	44	37
P70A62E	48	39	28	38	43	37	39
G21-245R2X	45	32	33	29	36	33	35
N8002	44	33	35	38	45	41	39
G21-14121LL	43	30	32	34	38	43	36
G21-6838	45	28	31	32	37	41	35
G21-6847	49	37	33	37	45	41	40
G21-6848	51	37	33	39	45	40	41
G21-7035	47	32	33	42	38	44	39
G22-155	48	39	37	46	42	35	41
G22-158R2	45	32	35	42	38	38	38
G22-3279HO	47	38	33	33	44	41	40
G22-3283HO	51	37	37	42	39	44	41
G22-4640	50	40	39	33	41	42	41
G22-493	45	39	35	43	42	40	40
G22-5081	43	32	32	34	35	38	36
G22-5092	50	38	30	34	40	37	39
G22-5228	49	40	33	29	38	38	39
G22-5254	45	38	31	33	37	44	38
G22-5280	48	37	32	33	40	36	38
G22-5414	49	32	34	36	34	41	37
G22-5546	46	39	26	37	39	34	37
G22-5584	47	36	34	37	42	40	39
G22-5649	49	39	35	30	42	44	40
G22-5652	47	37	31	42	41	38	39
G22-97HO	46	32	29	35	35	35	35
G23-6024E3	45	33	35	40	39	39	38
G23-D5BXF	44	28	28	35	38	39	35
G23PR-1076E3	48	43	40	37	48	37	43
G24-10152BXF	44	35	32	41	36	36	37
N21-1085	44	34	31	34	37	38	36
N21-1177	44	32	36	25	40	28	35
N23-6012	45	32	30	32	40	38	36
N23-6069	48	35	30	33	41	37	38
N23-6071	46	38	32	24	42	37	37
N23-6072	47	36	36	41	40	47	40
N23-6084	44	36	33	43	40	37	38
N23-6094	48	36	31	32	44	33	38
N23-6099	47	36	33	36	41	38	39
Mean	47	35	33	36	40	39	38
LSD(0.05)	5	4	.	.	5	.	3
CV(%)	6	8	.	.	7	.	9

TABLE 144 - PLANT LODGING (1-5)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	2.0	1.0	1.2	1.2	1.0	2.5	1.5
AG72XF0	1.0	1.0	1.0	1.0	1.0	1.5	1.1
P70A62E	3.0	3.0	1.5	1.5	3.0	2.7	2.5
G21-245R2X	1.7	2.0	1.3	1.5	1.0	1.5	1.5
N8002	3.7	3.0	1.5	1.5	3.0	2.7	2.6
G21-14121LL	2.0	1.0	1.3	1.5	1.7	2.0	1.6
G21-6838	2.0	1.0	1.3	1.3	1.0	2.0	1.4
G21-6847	2.3	1.3	1.8	1.5	1.7	2.5	1.8
G21-6848	2.7	1.0	1.0	1.3	1.0	2.0	1.5
G21-7035	2.3	1.0	1.3	1.5	1.0	2.2	1.5
G22-155	2.3	1.3	1.5	1.3	1.3	2.2	1.7
G22-158R2	2.3	1.0	1.0	1.3	1.0	2.0	1.4
G22-3279HO	2.3	1.7	1.3	1.3	1.3	2.5	1.7
G22-3283HO	2.7	1.7	1.5	1.5	1.0	1.7	1.7
G22-4640	3.0	3.0	1.8	1.3	3.0	2.2	2.4
G22-493	2.0	2.0	1.0	1.3	1.7	2.2	1.7
G22-5081	1.0	1.7	1.0	1.0	1.0	1.5	1.2
G22-5092	1.7	1.7	1.3	1.3	1.0	3.5	1.7
G22-5228	1.0	1.0	1.0	1.3	1.0	1.0	1.0
G22-5254	1.7	1.0	1.3	1.0	1.0	1.0	1.2
G22-5280	1.0	1.0	1.0	1.0	1.0	1.0	1.0
G22-5414	1.7	1.3	1.3	1.3	1.0	1.7	1.4
G22-5546	2.3	2.3	1.5	1.3	2.3	2.0	2.0
G22-5584	1.3	1.3	1.5	1.3	1.0	1.7	1.3
G22-5649	1.7	1.7	1.0	1.3	1.3	2.5	1.6
G22-5652	1.7	1.0	1.0	1.3	1.0	1.2	1.2
G22-97HO	1.3	1.7	1.0	1.3	1.0	1.7	1.3
G23-6024E3	2.7	1.3	1.3	1.5	1.3	2.2	1.7
G23-D5BXF	1.3	1.0	1.3	1.3	1.0	2.2	1.3
G23PR-1076E3	3.0	2.0	1.3	1.3	3.0	1.7	2.1
G24-10152BXF	2.3	1.7	1.5	1.8	1.0	2.7	1.8
N21-1085	3.0	1.3	1.8	1.8	1.7	2.2	2.0
N21-1177	2.0	1.0	1.3	1.3	2.7	1.7	1.7
N23-6012	3.0	3.0	1.5	1.5	3.0	3.7	2.6
N23-6069	3.3	2.7	1.3	1.5	3.0	3.5	2.6
N23-6071	2.0	2.3	1.5	1.0	2.0	2.5	1.9
N23-6072	2.0	1.7	1.3	1.5	1.0	1.5	1.5
N23-6084	3.7	2.7	1.5	1.8	3.0	3.0	2.6
N23-6094	3.0	2.3	1.5	1.5	3.0	2.7	2.4
N23-6099	3.0	2.7	1.5	1.3	3.0	3.2	2.5
Mean	2.2	1.7	1.3	1.3	1.7	2.2	1.7
LSD(0.05)	0.7	0.8	0.5	0.5	0.6	0.9	0.5
CV(%)	20.8	29.2	18.2	20.4	20.9	20.4	31.0

TABLE 145 - SEED QUALITY (1-5)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	1.0	1.0	.	.	1.3	.	1.1
AG72XF0	1.0	1.0	.	.	1.7	.	1.2
P70A62E	2.2	3.0	.	.	3.0	.	2.7
G21-245R2X	1.3	1.0	.	.	1.8	.	1.4
N8002	1.7	1.3	.	.	2.3	.	1.8
G21-14121LL	1.0	1.0	.	.	1.0	.	1.0
G21-6838	1.0	1.0	.	.	1.0	.	1.0
G21-6847	1.0	1.0	.	.	1.0	.	1.0
G21-6848	1.3	1.0	.	.	1.0	.	1.1
G21-7035	1.5	1.0	.	.	1.2	.	1.2
G22-155	1.2	1.0	.	.	1.2	.	1.1
G22-158R2	1.5	1.0	.	.	1.5	.	1.3
G22-3279HO	1.2	1.0	.	.	1.0	.	1.1
G22-3283HO	1.0	1.0	.	.	1.3	.	1.1
G22-4640	1.2	1.0	.	.	2.0	.	1.4
G22-493	1.5	1.0	.	.	1.3	.	1.3
G22-5081	1.0	1.0	.	.	1.8	.	1.3
G22-5092	1.2	1.0	.	.	1.5	.	1.2
G22-5228	1.3	2.0	.	.	1.7	.	1.7
G22-5254	1.5	1.0	.	.	2.0	.	1.5
G22-5280	1.5	1.7	.	.	1.5	.	1.6
G22-5414	1.5	1.0	.	.	1.3	.	1.3
G22-5546	1.0	1.0	.	.	1.0	.	1.0
G22-5584	1.0	1.0	.	.	1.2	.	1.0
G22-5649	1.2	1.0	.	.	1.0	.	1.1
G22-5652	1.3	1.0	.	.	1.0	.	1.1
G22-97HO	1.5	1.0	.	.	1.7	.	1.4
G23-6024E3	2.3	2.7	.	.	3.0	.	2.7
G23-D5BXF	1.8	1.0	.	.	2.3	.	1.7
G23PR-1076E3	1.8	1.0	.	.	2.5	.	1.8
G24-10152BXF	1.5	1.0	.	.	1.3	.	1.3
N21-1085	1.2	1.0	.	.	1.0	.	1.1
N21-1177	1.7	1.0	.	.	1.3	.	1.3
N23-6012	1.3	1.0	.	.	1.0	.	1.1
N23-6069	1.5	1.0	.	.	1.3	.	1.3
N23-6071	1.0	1.0	.	.	1.7	.	1.2
N23-6072	1.2	1.0	.	.	1.3	.	1.2
N23-6084	1.7	1.0	.	.	2.0	.	1.6
N23-6094	1.3	1.0	.	.	1.3	.	1.2
N23-6099	1.7	1.0	.	.	2.0	.	1.6
Mean	1.4	1.1	.	.	1.5	.	1.3
LSD(0.05)	0.4	0.4	.	.	0.4	.	0.4
CV(%)	19.6	19.7	.	.	17.4	.	25.5

**TABLE 146 - SEED SIZE (GRAMS PER 100 SEED)
PRELIMINARY GROUP VII-VIII 2025**

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	18.3	17.9	15.2	17.2	17.1	15.2	16.8
AG72XF0	15.4	14.6	11.9	15.0	14.8	12.5	14.0
P70A62E	16.5	18.3	13.5	15.9	16.8	14.3	15.9
G21-245R2X	19.9	18.4	15.6	17.2	18.6	13.8	17.3
N8002	16.8	18.0	14.5	13.8	16.1	13.3	15.5
G21-14121LL	17.0	17.4	14.4	16.5	16.4	15.0	16.1
G21-6838	14.9	15.1	12.1	15.1	14.1	12.1	13.9
G21-6847	15.0	15.4	12.2	14.8	15.1	12.0	14.1
G21-6848	13.9	17.0	11.8	12.9	13.7	11.2	13.5
G21-7035	17.6	17.4	14.2	15.9	17.8	15.4	16.4
G22-155	16.2	16.7	14.1	14.6	15.2	13.9	15.1
G22-158R2	18.5	17.8	13.5	15.8	16.4	14.5	16.2
G22-3279HO	16.6	15.1	13.9	15.1	15.6	12.8	14.9
G22-3283HO	16.5	15.9	13.4	14.7	15.5	13.5	14.9
G22-4640	17.5	18.0	15.2	16.9	16.8	15.1	16.6
G22-493	18.0	18.4	13.9	16.4	15.8	14.4	16.2
G22-5081	16.5	17.2	14.3	16.2	16.1	14.2	15.8
G22-5092	18.2	18.7	15.6	16.6	16.4	14.0	16.6
G22-5228	18.8	19.5	14.6	16.8	17.1	13.5	16.8
G22-5254	20.3	20.8	15.7	20.0	20.6	15.8	18.9
G22-5280	20.2	20.4	16.6	18.8	17.8	14.3	18.1
G22-5414	16.1	14.6	12.5	14.1	15.1	12.5	14.1
G22-5546	17.4	17.8	15.3	16.6	16.4	14.5	16.3
G22-5584	18.5	17.5	15.3	16.4	15.9	14.2	16.3
G22-5649	18.1	15.6	14.0	16.0	15.8	13.3	15.5
G22-5652	18.3	15.2	12.9	15.3	15.6	14.4	15.3
G22-97HO	16.3	17.4	12.2	14.2	17.4	12.4	15.1
G23-6024E3	15.8	17.8	14.1	13.7	15.1	13.1	15.0
G23-D5BXF	17.9	18.2	14.2	15.8	17.2	13.6	16.2
G23PR-1076E3	15.1	16.9	14.6	13.5	13.9	12.3	14.4
G24-10152BXF	17.5	17.5	13.3	15.7	18.7	15.9	16.5
N21-1085	16.8	19.7	14.6	15.2	16.8	15.2	16.4
N21-1177	17.1	16.2	14.7	16.7	15.9	13.9	15.7
N23-6012	15.3	15.6	12.2	12.0	14.7	11.6	13.6
N23-6069	14.5	13.5	12.8	13.3	13.5	11.7	13.2
N23-6071	17.6	18.4	16.0	18.2	18.6	15.6	17.4
N23-6072	17.0	17.1	14.4	17.3	16.2	15.1	16.2
N23-6084	15.3	16.7	14	13.7	15.8	13.5	14.9
N23-6094	16.4	15.9	12.4	13.7	13.8	13.1	14.3
N23-6099	16.5	20.8	14.9	14.7	17.2	13.9	16.5
Mean	17.0	17.3	14.0	15.6	16.2	13.8	15.7
LSD(0.05)	1.7	2.4	1.1	1.3	1.0	1.3	1.0
CV(%)	6.0	8.4	4.0	4.0	3.6	4.5	7.1

TABLE 147 - OIL (%)†
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	18.7	20.0	18.2	18.8	19.4	17.7	18.8
AG72XF0	19.1	20.4	18.5	20.2	19.7	18.6	19.4
P70A62E	19.0	19.6	18.9	19.4	19.4	18.5	19.1
G21-245R2X	17.9	19.9	18.5	19.3	19.1	17.8	18.7
N8002	18.0	19.3	18.1	19.2	18.3	17.6	18.4
G21-14121LL	17.9	20.0	19.4	18.4	19.5	18.5	19.0
G21-6838	17.7	18.9	17.4	19.1	18.0	17.6	18.1
G21-6847	17.4	18.3	16.7	18.7	18.3	18.2	17.9
G21-6848	16.9	17.7	17.1	18.2	17.8	17.6	17.6
G21-7035	18.8	21.0	19.6	19.8	19.8	19.0	19.7
G22-155	19.0	19.6	19.2	19.3	19.1	18.7	19.2
G22-158R2	19.2	20.1	19.5	.	20.0	17.8	19.4
G22-3279HO	18.6	19.5	19.2	18.9	19.2	18.3	18.9
G22-3283HO	18.4	19.9	18.9	18.7	18.6	18.5	18.8
G22-4640	19.3	19.8	18.6	19.4	19.4	18.8	19.2
G22-493	19.1	20.4	18.8	20.0	19.7	19.1	19.5
G22-5081	18.1	19.4	18.9	18.6	18.9	17.6	18.6
G22-5092	19.0	19.5	18.8	18.6	18.9	18.3	18.9
G22-5228	20.0	20.5	18.8	19.0	20.1	18.7	19.5
G22-5254	19.4	19.8	18.1	18.7	19.7	18.5	19.0
G22-5280	19.8	20.9	19.4	19.9	20.4	17.8	19.7
G22-5414	19.2	20.8	19.6	20.5	20.3	19.0	19.9
G22-5546	19.5	21.0	20.1	19.5	20.2	19.2	19.9
G22-5584	20.0	21.6	20.2	19.5	20.3	19.0	20.1
G22-5649	19.7	21.3	18.1	19.8	20.8	18.6	19.7
G22-5652	20.1	21.0	19.4	19.9	20.5	18.8	19.9
G22-97HO	19.4	20.3	19.1	19.5	19.7	19.3	19.6
G23-6024E3	20.1	20.8	20.2	20.6	20.7	19.4	20.3
G23-D5BXF	17.5	19.4	18.4	18.6	19.0	17.2	18.3
G23PR-1076E3	17.8	19.4	18.3	19.1	19.0	17.6	18.5
G24-10152BXF	19.2	20.6	19.4	20.3	19.7	19.0	19.7
N21-1085	16.8	17.8	16.6	18.0	16.1	16.7	17.0
N21-1177	18.0	18.7	17.8	18.0	18.4	17.0	18.0
N23-6012	17.3	18.8	17.7	18.6	17.8	17.4	17.9
N23-6069	18.7	19.6	18.6	20.0	19.1	18.8	19.1
N23-6071	18.1	19.6	18.0	18.5	19.3	18.1	18.6
N23-6072	18.9	20.6	19.2	18.8	20.6	18.8	19.5
N23-6084	18.9	20.1	19.1	19.6	19.5	18.4	19.3
N23-6094	18.7	19.2	18.1	18.5	18.6	17.1	18.4
N23-6099	18.3	20.5	18.2	19.4	19.1	18.9	19.1
Mean	18.7	19.9	18.7	19.2	19.3	18.3	19.0
LSD(0.05)	.	.	.	.	.	.	0.5
CV(%)	.	.	.	.	.	.	2.2

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

TABLE 148 - PROTEIN (%)†
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	35.9	36.3	37.5	35.6	34.5	37.3	36.2
AG72XF0	34.8	34.3	36.4	32.7	32.8	34.6	34.3
P70A62E	35.0	35.9	35.1	34.4	33.8	35.2	34.9
G21-245R2X	35.5	33.8	35.6	32.9	34.2	35.1	34.5
N8002	36.2	36.2	36.5	34.3	35.1	36.2	35.8
G21-14121LL	36.7	34.9	34.0	36.2	34.4	34.5	35.1
G21-6838	41.2	40.2	41.6	40.2	40.4	40.7	40.7
G21-6847	41.5	39.4	42.5	40.1	40.2	39.6	40.6
G21-6848	40.5	41.3	41.8	39.3	40.8	39.8	40.6
G21-7035	37.3	35.9	36.9	35.9	36.0	37.2	36.5
G22-155	35.6	35.7	35.9	34.3	35.2	34.9	35.3
G22-158R2	35.6	31.6	35.0	.	33.7	36.0	34.2
G22-3279HO	37.4	36.5	37.2	35.7	36.6	35.5	36.5
G22-3283HO	36.9	36.3	37.3	36.8	36.7	35.8	36.6
G22-4640	36.3	36.3	36.5	34.5	35.1	35.3	35.7
G22-493	35.6	34.5	35.8	33.3	34.6	34.6	34.7
G22-5081	36.7	36.9	36.1	35.1	35.7	37.3	36.3
G22-5092	35.9	36.7	36.5	36.0	35.8	36.5	36.2
G22-5228	33.7	35.6	36.0	35.7	33.8	35.2	35.0
G22-5254	34.0	35.4	35.6	34.7	33.6	34.5	34.6
G22-5280	33.8	34.5	35.0	32.7	33.2	35.3	34.1
G22-5414	34.7	34.8	36.0	33.1	34.0	35.4	34.7
G22-5546	34.7	33.5	35.0	34.3	33.7	34.4	34.3
G22-5584	33.4	33.0	33.8	33.6	33.1	34.6	33.6
G22-5649	35.3	33.7	37.6	34.2	32.3	36.7	35.0
G22-5652	35.0	33.5	34.8	32.9	32.9	36.0	34.2
G22-97HO	38.0	37.7	37.9	37.0	37.3	37.3	37.5
G23-6024E3	34.8	35.7	34.5	32.8	33.8	35.1	34.4
G23-D5BXF	35.4	34.5	35.2	34.7	33.3	36.1	34.9
G23PR-1076E3	36.6	36.2	35.7	34.1	34.6	36.0	35.5
G24-10152BXF	33.3	33.5	33.6	31.6	32.2	33.3	32.9
N21-1085	38.9	39.5	40.1	38.2	39.5	39.8	39.3
N21-1177	38.9	38.4	38.5	39.3	37.9	39.0	38.7
N23-6012	36.8	34.9	36.3	34.6	35.5	34.8	35.5
N23-6069	35.1	35.0	36.2	33.2	34.8	34.6	34.8
N23-6071	36.4	36.6	36.4	36.0	34.3	35.9	35.9
N23-6072	36.1	35.0	35.3	35.4	33.7	35.5	35.2
N23-6084	35.1	35.3	36.4	33.2	34.6	35.3	35.0
N23-6094	35.6	36.0	36.9	35.3	35.4	36.9	36.0
N23-6099	37.5	32.6	38.1	35.1	36.2	34.9	35.7
Mean	36.2	35.7	36.6	35.1	35.1	36.1	35.8
LSD(0.05)	.	.	.	.	.	.	0.9
CV(%)	.	.	.	.	.	.	2.2

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

TABLE 149 - ESTIMATED MEAL PROTEIN (%)†
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	48.0	49.3	49.8	47.7	46.5	49.3	48.4
AG72XF0	46.7	46.8	48.5	44.5	44.4	46.2	46.2
P70A62E	46.9	48.5	47.0	46.4	45.6	46.9	46.9
G21-245R2X	46.9	45.9	47.5	44.3	46.0	46.4	46.2
N8002	48.0	48.8	48.4	46.1	46.7	47.8	47.6
G21-14121LL	48.6	47.4	45.9	48.2	46.4	46.0	47.1
G21-6838	54.5	53.9	54.7	54.0	53.6	53.7	54.1
G21-6847	54.7	52.4	55.5	53.6	53.5	52.6	53.7
G21-6848	53.0	54.5	54.8	52.2	54.0	52.5	53.5
G21-7035	49.9	49.4	49.9	48.7	48.8	49.9	49.4
G22-155	47.8	48.3	48.3	46.2	47.3	46.7	47.4
G22-158R2	47.9	43.0	47.3	.	45.8	47.6	46.1
G22-3279HO	50.0	49.3	50.0	47.8	49.2	47.2	48.9
G22-3283HO	49.1	49.3	50.0	49.2	49.0	47.7	49.1
G22-4640	48.9	49.2	48.7	46.5	47.3	47.3	48.0
G22-493	47.8	47.1	47.9	45.2	46.8	46.5	46.9
G22-5081	48.7	49.8	48.4	46.9	47.8	49.2	48.5
G22-5092	48.2	49.6	48.9	48.1	48.0	48.6	48.5
G22-5228	45.7	48.7	48.2	47.9	46.0	47.1	47.3
G22-5254	45.9	48.0	47.2	46.4	45.5	46.0	46.5
G22-5280	45.8	47.4	47.2	44.4	45.3	46.7	46.1
G22-5414	46.6	47.8	48.7	45.3	46.4	47.5	47.0
G22-5546	46.9	46.1	47.6	46.3	45.9	46.3	46.5
G22-5584	45.3	45.8	46.0	45.4	45.1	46.4	45.7
G22-5649	47.8	46.5	49.9	46.4	44.3	49.0	47.3
G22-5652	47.6	46.1	46.9	44.6	45.0	48.2	46.4
G22-97HO	51.2	51.4	50.9	50.0	50.5	50.2	50.7
G23-6024E3	47.3	49.0	47.0	44.9	46.3	47.3	47.0
G23-D5BXF	46.7	46.5	46.9	46.3	44.7	47.4	46.4
G23PR-1076E3	48.4	48.8	47.5	45.8	46.4	47.5	47.4
G24-10152BXF	44.7	45.9	45.3	43.1	43.6	44.7	44.5
N21-1085	50.8	52.2	52.3	50.6	51.2	51.9	51.5
N21-1177	51.5	51.3	50.9	52.1	50.5	51.1	51.2
N23-6012	48.4	46.7	47.9	46.2	46.9	45.8	47.0
N23-6069	46.9	47.3	48.3	45.1	46.8	46.3	46.8
N23-6071	48.2	49.5	48.3	48.0	46.2	47.6	48.0
N23-6072	48.3	47.9	47.5	47.4	46.1	47.5	47.5
N23-6084	47.0	48.0	48.9	44.9	46.7	47.0	47.1
N23-6094	47.5	48.4	49.0	47.1	47.3	48.4	47.9
N23-6099	49.8	44.6	50.6	47.3	48.6	46.8	48.0
Mean	48.4	48.4	48.9	47.2	47.3	48.0	48.0
LSD(0.05)	.	.	.	.	.	.	1.0
CV(%)	.	.	.	.	.	.	1.9

† Estimated meal protein percentage is reported on a 13% moisture basis.

SUMMARY OF SEED FATTY ACIDS (%)
PRELIMINARY TEST VII-VIII 2025 †

STRAIN/ VARIETY	Palmitic Acid	Stearic Acid	Oleic Acid	Linoleic Acid	Linolenic Acid
SH 7418LL	12.1	3.4	22.2	53.6	8.7
AG72XF0	12.1	3.6	22.0	53.7	8.7
G21-6838	8.1	3.1	74.7	11.0	3.2
G21-6847	7.9	2.9	78.5	7.7	3.0
G21-6848	7.6	2.9	79.2	7.2	3.1
G21-7035	7.3	3.2	79.1	7.7	2.7
G22-3279HO	7.8	3.2	77.9	8.3	2.8
G22-3283HO	8.1	3.2	74.2	11.3	3.2
G22-97HO	7.8	3.1	77.9	8.6	2.7
Mean	8.8	3.2	65.1	18.8	4.2
LSD(0.05)	0.4	0.2	3.1	2.4	0.7
CV(%)	3.5	5.0	4.0	10.8	14.4

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

SEED PALMITIC ACID (%)
PRELIMINARY GROUP VII-VIII 2024

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	9.4	6.8	8.5	9.1	8.3	9.9	8.7
AG72XF0	9.8	8.0	7.9	8.8	8.6	9.0	8.7
G21-6838	2.8	.	2.9	2.4	4.5	3.6	3.2
G21-6847	3.8	3.1	2.7	3.3	2.7	2.7	3.0
G21-6848	2.9	2.4	3.0	2.5	3.4	4.7	3.1
G21-7035	3.3	2.8	2.4	2.9	2.3	2.8	2.7
G22-3279HO	2.6	2.6	2.6	2.5	3.2	.	2.8
G22-3283HO	4.8	3.0	2.7	3.3	2.8	2.9	3.2
G22-97HO	3.0	2.1	2.9	2.5	3.1	2.9	2.7
Mean	4.7	3.9	4.0	4.1	4.3	4.8	4.2
LSD(0.05)	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	14.4

SEED STEARIC ACID (%)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	9.4	6.8	8.5	9.1	8.3	9.9	8.7
AG72XF0	9.8	8.0	7.9	8.8	8.6	9.0	8.7
G21-6838	2.8	.	2.9	2.4	4.5	3.6	3.2
G21-6847	3.8	3.1	2.7	3.3	2.7	2.7	3.0
G21-6848	2.9	2.4	3.0	2.5	3.4	4.7	3.1
G21-7035	3.3	2.8	2.4	2.9	2.3	2.8	2.7
G22-3279HO	2.6	2.6	2.6	2.5	3.2	.	2.8
G22-3283HO	4.8	3.0	2.7	3.3	2.8	2.9	3.2
G22-97HO	3.0	2.1	2.9	2.5	3.1	2.9	2.7
Mean	4.7	3.9	4.0	4.1	4.3	4.8	4.2
LSD(0.05)	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	14.4

SEED OLEIC ACID (%)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	22.4	23.7	21.4	20.7	23.9	21.0	22.2
AG72XF0	21.6	22.3	22.0	21.2	22.8	22.1	22.0
G21-6838	77.0	.	75.5	77.3	66.7	75.3	74.7
G21-6847	77.8	80.7	78.1	77.8	78.9	77.4	78.5
G21-6848	79.4	82.2	78.1	80.0	79.8	75.9	79.2
G21-7035	78.5	82.0	78.3	78.6	79.8	77.3	79.1
G22-3279HO	76.6	81.8	77.3	77.0	77.6	.	77.9
G22-3283HO	62.4	79.4	75.9	75.5	77.4	74.7	74.2
G22-97HO	77.2	81.0	76.8	78.1	77.7	76.3	77.9
Mean	63.7	66.6	64.8	65.1	65.0	62.5	65.1
LSD(0.05)	.	.	.	.	.	.	3.1
CV(%)	.	.	.	.	.	.	4.0

SEED LINOLEIC ACID (%)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	52.4	53.4	54.3	55.2	52.5	53.7	53.6
AG72XF0	53.2	53.9	53.8	54.8	53.0	53.4	53.7
G21-6838	9.7	.	10.1	9.5	16.8	10.0	11.0
G21-6847	7.9	5.5	8.1	8.1	7.6	8.9	7.7
G21-6848	7.4	5.0	7.7	7.7	6.5	8.8	7.2
G21-7035	7.8	4.8	8.6	8.4	7.5	9.1	7.7
G22-3279HO	9.4	5.1	8.9	9.7	8.1	.	8.3
G22-3283HO	20.4	6.8	10.3	10.4	9.0	11.0	11.3
G22-97HO	8.9	6.1	9.2	9.0	8.5	9.7	8.6
Mean	19.7	17.6	19.0	19.2	18.8	20.6	18.8
LSD(0.05)	.	.	.	.	.	.	2.4
CV(%)	.	.	.	.	.	.	10.8

SEED LINOLENIC ACID (%)
PRELIMINARY GROUP VII-VIII 2025

STRAIN/ VARIETY	Athens, GA(A)	Fairhope, AL	Jackson Springs, NC	Kinston, NC	Plains, GA	Plymouth, NC	Test Mean
SH 7418LL	9.4	6.8	8.5	9.1	8.3	9.9	8.7
AG72XF0	9.8	8.0	7.9	8.8	8.6	9.0	8.7
G21-6838	2.8	.	2.9	2.4	4.5	3.6	3.2
G21-6847	3.8	3.1	2.7	3.3	2.7	2.7	3.0
G21-6848	2.9	2.4	3.0	2.5	3.4	4.7	3.1
G21-7035	3.3	2.8	2.4	2.9	2.3	2.8	2.7
G22-3279HO	2.6	2.6	2.6	2.5	3.2	.	2.8
G22-3283HO	4.8	3.0	2.7	3.3	2.8	2.9	3.2
G22-97HO	3.0	2.1	2.9	2.5	3.1	2.9	2.7
Mean	4.7	3.9	4.0	4.1	4.3	4.8	4.2
LSD(0.05)	.	.	.	.	.	.	0.7
CV(%)	.	.	.	.	.	.	14.4