

# MISSISSIPPI PEANUT

## VARIETY TRIALS, 2019

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**MISSISSIPPI'S OFFICIAL VARIETY TRIALS**



**MISSISSIPPI STATE UNIVERSITY™**  
MS AGRICULTURAL AND  
FORESTRY EXPERIMENT STATION

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# Mississippi Peanut Variety Trials, 2019

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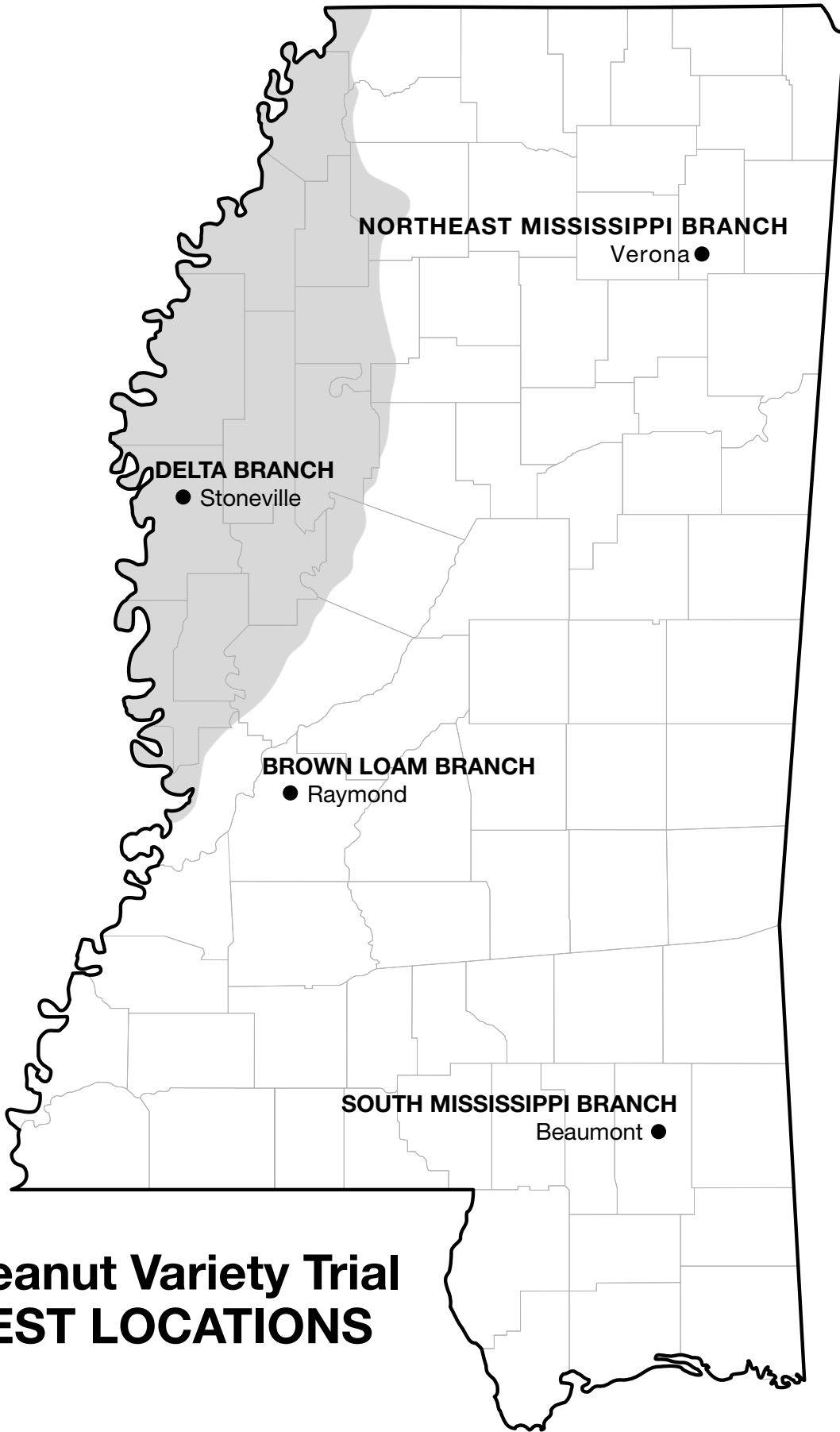
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Find variety trial information online at [mafes.msstate.edu/variety-trials](http://mafes.msstate.edu/variety-trials).





**Peanut Variety Trial  
TEST LOCATIONS**



# Mississippi Peanut Variety Trials, 2019

## PROCEDURES

Peanut variety trials were conducted at four locations in Mississippi in 2019. Trials were conducted on Experiment Station land to attempt to represent the different geographic regions of the state in which peanuts are grown. The same commercially available varieties of peanuts were tested at all four locations.

Plots consisted of two 38-inch-wide, 30-foot-long twin rows. Weeds were controlled by cultivation and/or herbicides. Only herbicides currently registered for use on peanuts were used in these studies, with strict adherence to all label instructions.

All varieties were treated with a fungicide seed treatment and an in-furrow insecticide. Experimental design

was a randomized complete block with four replications at each location.

All varieties were planted with a two-row, twin-drill, Monosem plot planter at a uniform seeding rate of six seeds per foot. Fertilizer was applied according to soil test recommendations.

The plots were dug with a KMC two-row peanut digger. After proper drying, the total plot area was harvested with a KMC two-row, pull-type, peanut combine fitted with a bagging attachment. The harvested plots were weighed, moisture was determined, and yields were converted to pounds per acre, following statistical analysis. All plots weights were adjusted to a standard moisture of 13%.

## USE OF DATA TABLES AND SUMMARY STATISTICS

The yield potential of a given variety cannot be predicted with complete accuracy. Consequently, replicate plots of all varieties are evaluated for yield, and the yield of a given variety is estimated as the mean of all replicate plots of that variety. Yields vary somewhat from one replicate plot to another, which introduces a certain degree of error to the estimation of yield potential. This natural variation is often responsible for yield differences among different varieties. Thus, even if the mean yields of two varieties are numerically different, they are not necessarily significantly different in terms of yield potential. In other words, the ability to measure yield is not precise enough to determine whether such small differences are observed purely by chance or because of superior performance. The least significant difference (LSD) is an estimate of the smallest difference between two varieties that can be declared to be

the result of something other than random variation in a particular trial. Consider the following example for a given trial:

Variety	Yield
Abe .....	6,000 lb/A
Bill .....	5,600 lb/A
Charlie .....	4,900 lb/A
LSD .....	500 lb/A

The difference between variety Abe and variety Bill is 400 pounds per acre ( $6,000 - 5,600 = 400$ ). This difference is **smaller** than the LSD (500 pounds per acre). Consequently, it is concluded that variety Abe and variety Bill have the same yield potential since the observed difference occurred purely due to chance. The difference between variety Abe and variety Charlie is 1,100 pounds per acre ( $6,000 - 4,900 = 1,100$ ), which is **larger**

than the LSD (500 pounds per acre). Therefore, it is concluded that the yield potential of variety Abe is superior to that of variety Charlie since the difference is larger than would be expected purely by chance. The coefficient of variation (CV) is a measure of the relative precision of a given trial and is used to compare the relative precision of different trials. The CV is generally considered to be an estimate of the amount of unexplained variation in a given trial. This unexplained variation could be the result of variation between plots with respect to soil type, fertility, insects, diseases, weather stress, etc. In general, the higher the CV is, the

lower the precision in a given trial. The coefficient of determination ( $R^2$ ) is another measure of the level of precision in a trial and is also used to compare the relative precision of different trials. The  $R^2$  is a measure of the amount of variation that is explained, or accounted for, in a given trial. For example, an  $R^2$  value of 90% indicates that 90% of the observed variation in the trial has been accounted for, with the remaining 10% being unaccounted. The higher the  $R^2$  value is, the more precise the trial. The  $R^2$  is generally considered to be a better measure of precision than the CV for comparison of different trials.

## TERMS USED

**SMKRS** count per pound (number per pound of sound, whole, mature kernels riding screen) — Number of sound whole mature kernels from 1 pound of the shelled sample riding a 15/64 x 1-inch slotted screen or a 16/64 x 3/4-inch slotted screen for Virginia or Runner varieties, respectively.

**Pct. SMKRS** (sound mature kernels riding screen) — Portion of shelled sample as described above.

**Pct. SS** (sound splits) — Portion of shelled sample split or broken but not damaged.

**Pct. TSMK** (total sound mature kernels) — Portion of the shelled sample comprised of sound mature kernels plus sound splits.

**Pct. OK** (other kernels) — Kernels that pass through a 15/64 x 1-inch slotted screen or 16/64 x 3/4-inch slotted screen for Virginia or Runner varieties, respectively.

**Pct. DK** (damaged kernels) — Kernels that are moldy, decayed, or affected by insects or weather conditions, resulting in seed coat or cotyledon discoloration or deterioration.

**Pct. TK** (total kernels) — All shelled sample kernels including TSMK, OK, and DK.

**Pct. Hulls** — All hulls from the shelled sample.

**Table 1. 2019 Mississippi Peanut Official Variety Trial yield and grade summary for short-season varieties.**

Variety	Beaumont		Raymond		Stoneville		Verona		Overall average	
	Yield	TSMK	Yield	TSMK	Yield	TSMK	Yield	TSMK	Yield	TSMK
	lb/A	%	lb/A	%	lb/A	%	lb/A	%	lb/A	%
IPG 914	4751.0	70.0	2602.0	70.9	4294.3	71.8	5756.7	69.2	4351.0	70.5
IPG QR-14	4516.9	70.7	2456.2	69.7	4490.2	69.0	6776.2	71.0	4559.9	70.1
Jupiter	4994.4	69.5	3146.3	67.2	5631.9	66.0	9067.1	71.1	5709.9	68.4
Ole	3334.2	65.6	2049.6	68.2	3291.7	67.8	5488.3	65.1	3540.9	66.7
Schubert	2561.9	61.4	2331.7	68.0	4104.3	60.6	6312.0	60.6	3827.4	62.6
MS SB304 *	—	—	—	—	6132.8	75.7	8487.4	60.8	7310.1	68.3
MS SB305 *	—	—	—	—	6228.0	75.2	6387.2	76.0	6307.6	75.6
MS SB307 *	—	—	—	—	6530.0	75.5	6766.2	73.4	6648.1	74.5
MS SB310 *	—	—	—	—	6833.8	74.6	6482.1	75.1	6657.9	74.9
MS SB313 *	—	—	—	—	6752.3	74.5	5562.4	74.5	6157.3	74.5
MS SB316 *	—	—	—	—	5682.8	72.1	6856.8	72.9	6269.8	72.5
Mean	4031.7	67.4	2517.1	68.8	5452.0	71.2	6722.0	70.0	5576.4	70.8
CV	18.8		16.2		8.3		16.8			
LSD	1168.0		627.9		650.4		1625.0			
$R^2$	72.7		63.9		91.1		65.3			
error df	12		12		30		30			

\* The lines followed by an asterisk originated from 2016-2018 grants provided by the Mississippi Peanut Promotion Board for a disease nursery located in the Hamilton vicinity. The lines were selected by and from material provided by Dr. Dylan Wann from the International Peanut Group/Algrano Seed and by Dr. Alan Henn, Mississippi State University Extension plant pathologist. Lines were selected for 120-day maturity, early leaf spot, and soil-borne disease characteristics, as well as for yield.



**Table 2. 2019 Mississippi Peanut Official Variety Trial yield and grade summary for full-season varieties.**

Variety	Beaumont		Raymond		Stoneville		Verona		Overall average	
	Yield	TSMK	Yield	TSMK	Yield	TSMK	Yield	TSMK	Yield	TSMK
	<i>lb/A</i>	%	<i>lb/A</i>	%	<i>lb/A</i>	%	<i>lb/A</i>	%	<i>lb/A</i>	%
AU-NPL-17	6197.3	75.0	3045.0	69.5	2369.3	74.4	4896.9	74.0	4127.1	73.2
Georgia-06G	5657.9	78.9	3393.4	74.7	3568.9	76.8	5664.1	78.5	4571.1	77.2
Georgia-09B	5610.7	72.7	2963.3	73.9	1637.4	74.7	5660.0	78.1	3967.9	74.8
Georgia-12Y	6398.3	74.8	3431.2	73.2	3903.0	74.2	5664.4	75.0	4849.2	74.3
Georgia-14N	5074.3	76.4	2711.8	77.5	1796.6	73.0	5099.4	78.7	3670.5	76.4
Georgia-16HO	6261.7	79.1	3877.4	74.8	1583.9	70.9	6330.6	78.2	4513.4	75.8
Georgia-18RU	5696.0	69.5	3550.5	76.1	1372.2	72.7	6343.4	78.4	4240.5	74.2
LARIAT	4255.8	76.3	3675.9	76.9	1405.2	74.5	5188.3	78.2	3631.3	76.5
TIF-NV-HIGH O/L	5667.3	75.8	3506.9	72.9	2224.1	72.3	5996.3	77.5	4348.7	74.6
TUFRRunner™ '297'	6481.0	78.2	3761.9	76.7	1942.9	75.4	5854.7	78.8	4510.1	77.3
FloRun™ '331'	5506.6	72.9	3533.2	73.2	2728.6	72.8	6086.2	75.5	4463.6	73.6
T1	—	—	2430.0	71.7	—	—	—	—	2430.0	71.7
T2	—	—	2080.4	70.9	—	—	—	—	2080.4	70.9
T3	—	—	1566.0	69.5	—	—	—	—	1566.0	69.5
Mean	5709.7	75.4	3109.1	73.7	2230.2	73.8	5707.7	77.4	3783.6	74.3
CV	12.8		14.3		24.8		7.6			
LSD	1056.0		636.5		799.5		623.7			
R <sup>2</sup>	54.1		76.7		76.8		65.7			
error df	30		39		30		30			

**Table 3. Two-year (2018 and 2019) yield summary of short-season peanut variety trials in Mississippi.**

Variety	Beaumont	Raymond	Stoneville	Verona	Overall avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>
IPG 914	4894.8	4428.9	5343.0	5729.3	5099.0
IPG QR-14	3980.9	3814.1	4750.7	5462.6	4502.1
Overall mean	4437.9	4121.5	5046.8	5595.9	4800.5

**Table 4. Two-year (2018 and 2019) yield summary of full-season peanut variety trials in Mississippi.**

Variety	Beaumont	Raymond	Stoneville	Verona	Overall avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>
AU-NPL-17	5870.0	4875.3	4549.6	5266.2	5140.3
FloRun™ '331'	5431.8	5307.8	4939.2	6323.1	5500.5
Georgia-06G	5811.4	4915.3	5653.8	5982.0	5590.6
Georgia-09B	4894.9	4857.3	3674.7	5701.0	4782.0
Georgia-12Y	5704.4	5266.2	5620.3	5630.8	5555.4
Georgia-14N	4589.8	4262.4	3559.8	4630.7	4260.7
Georgia-16HO	5794.8	5316.0	4657.6	6314.4	5520.7
TIF-NV-HIGH O/L	5202.1	5017.1	3859.5	6037.4	5029.0
TUFRRunner™ '297'	5919.4	4832.8	4390.4	5984.6	5281.8
Overall mean	5468.7	4961.1	4545.0	5763.4	5184.5

**Table 5. Three-year (2017, 2018, and 2019) yield summary of short-season peanut variety trials in Mississippi.**

<b>Variety</b>	<b>Raymond</b>	<b>Stoneville</b>	<b>Overall average</b>
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>
IPG 914	5199.0	5645.0	5422.0
IPG QR-14	5016.8	5350.8	5183.8
Overall mean	5107.9	5497.9	5302.9

**Table 6. Three-year (2017, 2018, and 2019) yield summary of full-season peanut variety trials in Mississippi.**

<b>Variety</b>	<b>Raymond</b>	<b>Stoneville</b>	<b>Overall average</b>
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>
AU-NPL-17	5670.9	5011.4	5341.1
FloRun™ '331'	6093.9	5650.1	5872.0
Georgia-06G	5681.5	5941.5	5811.5
Georgia-09B	5868.9	4680.1	5274.5
Georgia-12Y	5860.5	5957.9	5909.2
Georgia-14N	4893.3	3958.2	4425.7
Georgia-16HO	6102.6	5601.7	5852.2
TIF-NV-HIGH O/L	5667.7	4564.3	5116.0
TUFRunner™ '297'	5858.5	5190.3	5524.4
Overall mean	5744.2	5172.8	5458.5



**Table 7. Yield, average seed size, and grade of short-season peanut varieties at the MAFES South Mississippi Branch, Beaumont.**

<b>Variety</b>	<b>2019 yield</b>	<b>2-year avg.</b>	<b>3-year<sup>1</sup> avg.</b>	<b>TSMK</b>	<b>Seed avg.</b>
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>%</i>	<i>no./lb</i>
Jupiter	4994.4	—	—	69.5	460
IPG 914	4751.0	4894.8	—	70.0	741
IPG QR-14	4516.9	3980.9	—	70.7	880
Ole	3334.2	—	—	65.6	810
Schubert	2561.9	—	—	61.4	930
Mean	4031.7			67.4	764
CV	18.8				
LSD	1168.0				
R <sup>2</sup>	72.7				
error df	12				
<sup>1</sup> No 3-year average.					

**Table 8. Yield, average seed size, and grade of full-season peanut varieties at the MAFES South Mississippi Branch, Beaumont.**

<b>Variety</b>	<b>2019 yield</b>	<b>2-year avg.</b>	<b>3-year<sup>1</sup> avg.</b>	<b>TSMK</b>	<b>Seed avg.</b>
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	<i>%</i>	<i>no./lb</i>
TUFRunner™ '297'	6481.0	5919.4	—	78.2	520
Georgia-12Y	6398.3	5704.4	—	74.8	650
Georgia-16HO	6261.7	5794.8	—	79.1	520
AU-NPL-17	6197.3	5870.0	—	75.0	510
Georgia-18RU	5696.0	—	—	69.5	630
TIF-NV-HIGH O/L	5667.3	5202.1	—	75.8	500
Georgia-06G	5657.9	5811.4	—	78.9	540
Georgia-09B	5610.7	4894.9	—	72.7	580
FloRun™ '331'	5506.6	5431.8	—	72.9	610
Georgia-14N	5074.3	4589.8	—	76.4	580
LARIAT	4255.8	—	—	76.3	530
Mean	5709.7				
CV	12.8				
LSD	1056.0				
R <sup>2</sup>	54.1				
error df	30				
<sup>1</sup> No 3-year average.					



**Table 9. Yield, seed size, and grade of short-season peanut varieties at the MAFES Brown Loam Branch, Raymond.**

Variety	2019 yield	2-year avg.	3-year avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
Jupiter	3146.3	—	—	67.2	510
IPG 914	2602.0	4428.9	5199.0	70.9	590
IPG QR-14	2456.2	3814.1	5016.8	69.7	780
Schubert	2331.7	—	—	68.0	730
Ole	2049.6	—	—	68.2	580
Mean	2517.1				
CV	16.2				
LSD	627.9				
R <sup>2</sup>	63.9				
error df	12				

**Table 10. Yield, average size, and grade of full-season peanut varieties at the MAFES Brown Loam Branch, Raymond.**

Variety	2019 yield	2-year avg.	3-year avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
Georgia-16HO	3877.4	5316.0	6102.6	74.8	470
TUFRunner™ '297'	3761.9	4832.8	5858.5	76.7	520
LARIAT	3675.9	—	—	76.9	570
Georgia-18RU	3550.5	—	—	76.1	630
FloRun™ '331'	3533.2	5307.8	6093.9	73.2	550
TIF-NV-HIGH O/L	3506.9	5017.1	5667.7	72.9	530
Georgia-12Y	3431.2	5266.2	5860.5	73.2	620
Georgia-06G	3393.4	4915.3	5681.5	74.7	520
AU-NPL-17	3045.0	4875.3	5670.9	69.5	480
Georgia-09B	2963.3	4857.3	5868.9	73.9	620
Georgia-14N	2711.8	4262.4	4893.3	77.5	620
T1	2430.0	—	—	71.7	540
T2	2080.4	—	—	70.9	590
T3	1566.0	—	—	69.5	540
Mean	3109.1				
CV	14.3				
LSD	636.5				
R <sup>2</sup>	76.7				
error df	39				



**Table 11. Yield, average seed size, and grade of short-season peanut varieties at the MAFES Delta Branch, Stoneville.**

Variety	2019 yield	2-year avg.	3-year <sup>1</sup> avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
MS SB310 *	6833.8	—	—	74.6	650
MS SB313 *	6752.3	—	—	74.5	540
MS SB307 *	6530.0	—	—	75.5	570
MS SB305 *	6228.0	—	—	75.2	660
MS SB304 *	6132.8	—	—	75.7	640
MS SB316 *	5682.8	—	—	72.1	510
Jupiter	5631.9	—	—	66.0	460
IPG QR-14	4490.2	4750.7	5350.8	69.0	720
IPG 914	4294.3	5343.0	5645.0	71.8	680
Schubert	4104.3	—	—	60.6	1030
Ole	3291.7	—	—	67.8	780
Mean	5452.0				
CV	8.3				
LSD	650.4				
R <sup>2</sup>	91.1				
error df	30				

\* The lines followed by an asterisk originated from 2016-2018 grants provided by the Mississippi Peanut Promotion Board for a disease nursery located in the Hamilton vicinity. The lines were selected by and from material provided by Dr. Dylan Wann of the International Peanut Group/Algrano Seed and by Dr. Alan Henn, Mississippi State University Extension plant pathologist. Lines were selected for 120-day maturity, early leaf spot, and soil-borne disease characteristics, as well as for yield.

**Table 12. Yield, average seed size and grade of full-season peanut varieties at the MAFES Delta Branch, Stoneville.**

Variety	2019 yield	2-year avg.	3-year <sup>1</sup> avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
Georgia-12Y	3903.0	5620.3	5957.9	74.2	650
Georgia-06G	3568.9	5653.8	5941.5	76.8	570
FloRun™ '331'	2728.6	4939.2	5650.1	72.8	680
AU-NPL-17	2369.3	4549.6	5011.4	74.4	600
TIF-NV-HIGH O/L	2224.1	3859.5	4564.3	72.3	600
TUFRunner™ '297'	1942.9	4390.4	5190.3	75.4	590
Georgia-14N	1796.6	3559.8	3958.2	73.0	790
Georgia-09B	1637.4	3674.7	4680.1	74.7	740
Georgia-16HO	1583.9	4657.6	5601.7	70.9	670
LARIAT	1405.2	—	—	74.5	680
Georgia-18RU	1372.2	—	—	72.7	630
Mean	2230.2				
CV	24.8				
LSD	799.5				
R <sup>2</sup>	76.8				
error df	30				





**Table 13. Yield, average seed size and grade of short-season peanut varieties at the MAFES Northeast Mississippi Branch, Verona.**

Variety	2019 yield	2-year avg.	3-year <sup>1</sup> avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
Jupiter	9067.1	—	—	71.1	450
MS SB304 *	8487.4	—	—	60.8	1002
MS SB316 *	6856.8	—	—	72.9	550
IPG QR-14	6776.2	5462.6	—	71.0	680
MS SB307 *	6766.2	—	—	73.4	720
MS SB310 *	6482.1	—	—	75.1	740
MS SB305 *	6387.2	—	—	76.0	710
Schubert	6312.0	—	—	60.6	980
IPG 914	5756.7	5729.3	—	69.2	650
MS SB313 *	5562.4	—	—	74.5	650
Ole	5488.3	—	—	65.1	840
Mean	6722.0				
CV	16.8				
LSD	1625.0				
R <sup>2</sup>	65.3				
error df	30				

\* The lines followed by an asterisk originated from 2016-2018 grants provided by the Mississippi Peanut Promotion Board for a disease nursery located in the Hamilton vicinity. The lines were selected by and from material provided by Dr. Dylan Wann of the International Peanut Group/Algrano Seed and by Dr. Alan Henn, Mississippi State University Extension plant pathologist. Lines were selected for 120-day maturity, early leaf spot, and soil-borne disease characteristics, as well as for yield.  
<sup>1</sup>No 3-year average.

**Table 14. Yield, average seed size and grade of full-season peanut varieties at the MAFES Northeast Mississippi Branch, Verona.**

Variety	2019 yield	2-year avg.	3-year <sup>1</sup> avg.	TSMK	Seed avg.
	<i>lb/A</i>	<i>lb/A</i>	<i>lb/A</i>	%	<i>no./lb</i>
Georgia-18RU	6343.4	—	—	78.4	460
Georgia-16HO	6330.6	6314.4	—	78.2	490
FloRun™ '331'	6086.2	6323.1	—	75.5	520
TIF-NV-HIGH O/L	5996.3	6037.4	—	77.5	470
TUFRunner™ '297'	5854.7	5984.6	—	78.8	472
Georgia-12Y	5664.4	5630.8	—	75.0	580
Georgia-06G	5664.1	5982.0	—	78.5	550
Georgia-09B	5660.0	5701.0	—	78.1	590
LARIAT	5188.3	—	—	78.2	560
Georgia-14N	5099.4	4630.7	—	78.7	590
AU-NPL-17	4896.9	5266.2	—	74.0	480
Mean	5707.7				
CV	7.6				
LSD	623.7				
R <sup>2</sup>	65.7				
error df	30				

<sup>1</sup>No 3-year average.





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**George M. Hopper, Director**

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