

# Alabama Performance Comparison of Peanut Varieties 2015

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# The 2015 Alabama Performance Comparison of Peanut Varieties

James P. Bostick, Larry W. Wells and Brian E. Gamble<sup>1</sup>

## Introduction

The number of peanut varieties available to Alabama growers has increased in recent years, thus placing greater need for unbiased performance data regarding varietal selection for production.

## Production and Discussion

The 2015 tests were conducted at the Wiregrass Research and Extension Center in Headland, Ala. During 2015, 16 entries were evaluated under irrigation and dryland conditions.

The experimental design for each test was a randomized complete block consisting of two-row plots, 20 feet long, replicated four times. The dryland and irrigated tests were planted on May 13. Both tests were planted with a cone planter at a rate of six seed per foot of row. Recommended agronomic practices were followed regarding fertility, disease, insect, and weed control in all tests.

The irrigated test entries with maturity similar to 'Georgia Green' were dug on October 1. These entries were 'Flo-Run<sup>TM</sup>107', 'Georgia-06G,' 'Georgia-09B,' 'Georgia-13M,' 'Georgia-14N,' 'Tifguard,' 'TifNV-High O/L,' 'TUFRunner<sup>TM</sup>297,' 'TUFRunner<sup>TM</sup>511,' 'TUFRunner<sup>TM</sup>727,' '13 AU/NPRL-10,' and '13 AU/NPRL-12.' Entries moderately later than 'Georgia Green' were 'C1801-949,' 'C1801-985,' and 'Florida 07' and dug on Oct. 7. Entry with maturity considerably later than 'Georgia Green,' was 'Georgia-12Y' and dug October 14.

The dryland test entries with maturity near the same as 'Georgia Green' were dug on October 1. These entries were 'Flo-Run<sup>TM</sup>107', 'Georgia-06G,' 'Georgia-09B,' 'Georgia-13M,' 'Georgia-14N,' 'Tifguard,' 'TifNV-High O/L,' 'TUFRunner<sup>TM</sup>297,' 'TUFRunner<sup>TM</sup>511,' 'TUFRunner<sup>TM</sup>727,' '13 AU/NPRL-10,' and '13 AU/NPRL-12.' Entries moderately later than 'Georgia Green' were 'C1801-949,' 'C1801-985,' and 'Florida 07' and dug on October 7. Entry with maturity considerably later than 'Georgia Green,' was 'Georgia-12Y' and dug October 14.

The information presented here represents data from three years at one location. Yield and disease occurrence data have been subjected to an analysis

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of variance. This statistical evaluation determined the overall averages for all varieties, coefficient of variation (CV) and the least significant differences (LSD). The LSD values represent the difference required for the averages of two varieties to be considered statistically different. The (0.05) following the LSD value indicates that the LSD was calculated at the 95% level of confidence.

## Size and Grade Data Terms

Data was collected and averaged on samples from replicates II, III, and IV for size and grade. The samples were graded following Federal-State Inspection Service procedures for grading farmer-stock peanuts.

### Terms Used

**SMKRS** count/lb. (number per pound of sound 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, 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.

**+21.0** (Generally considered as the Jumbo commercial grade)—Portion of SMKRS riding a 21/64 x 3/4-inch slotted screen.

**-21.0 + 18.0** (Generally considered as the Medium commercial grade)—Portion of the SMKRS falling through a 21/64 x 3/4-inch slotted screen and riding a 18/64 x 3/4-inch slotted screen.

**-18.0 + 16.0** (Generally considered as the No.1 commercial grade)—Portion of the SMKRS falling through a 18/64 x 3/4-inch slotted screen and riding a 16/64 x 3/4-inch slotted screen.

## **Acknowledgements**

The authors express appreciation to Austin K. Hagan, Professor of Plant Pathology, for providing the disease evaluation data and to Glenn Wehtje, Professor of Crop, Soil, and Environmental Sciences, for the statistical analysis. Appreciation is also expressed to Susan Morrisette for her contributions.

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**Table 1**

*Three-Year Average Yield of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2013-2015*

Variety or Line	2015 (lbs/acre)	2 Year Average	3 Year Average
'TUFRunner™ 297'	7511	---- <sup>1</sup>	----
'Georgia-06G'	7366	6605	6693
'C1801-949'	7321	----	----
'TUFRunner™ 511'	7061	6698	----
'Georgia-12Y'	6932	6316	6404
'Flo-Run™ 107'	6721	6237	6146
'Georgia-09B'	6686	6292	6216
'TUFRunner™ 727'	6504	6483	6391
'Florida 07'	6333	6243	5771
'Georgia-13M'	6324	5926	----
'Tifguard'	6307	5962	5683
'TifNV-High O/L' <sup>2</sup>	6128	5955	5824
'13 AU/NPRL-12'	6001	----	----
'C1801-985'	5998	----	----
'13 AU/NPRL-10'	5786	----	----
'Georgia-14N'	5677	----	----
<i>Overall Average</i>	<i>6541</i>	<i>6272</i>	<i>6164</i>
CV (%)	7.0	11.20	11.56
LSD (0.05)	652	701	578

<sup>1</sup> Not Tested

<sup>2</sup> Formerly known as C1805-3-43

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**Table 2**  
Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2015

Variety or Line	SMKRS (count/lb )	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'C1801-949'	531	67	1	68	3	1	72	28
'C1801-985'	647	67	1	68	3	1	72	28
'Florida 07'	601	69	2	71	2	1	74	26
'Flo-Run™107'	731	70	2	72	3	1	76	24
'Georgia-06G'	586	74	1	75	2	0	77	23
'Georgia-09B'	649	72	1	73	3	1	77	23
'Georgia-12Y'	707	69	1	70	3	0	73	27
'Georgia-13M'	833	72	1	73	4	0	77	23
'Georgia-14N'	811	71	2	73	4	1	78	22
'Tifguard'	611	71	0	71	3	1	75	25
'TifNV-High O/L'	629	69	1	70	3	1	74	26
'TUFRunner™297'	561	73	1	74	2	1	77	23
'TUFRunner™511'	599	72	1	73	2	1	76	24
'TUFRunner™727'	660	71	1	72	4	0	76	24
'13 AU/NPRL-10'	727	69	1	70	3	1	74	26
'13 AU/NPRL-12'	740	69	1	70	3	1	74	26

**Table 3**  
Two-Year Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2014 - 2015

Variety or Line	SMKRS (count/lb )	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'Flo-Run™107'	707	69	3	72	4	1	77	26
'Florida 07'	589	71	2	73	2	1	76	24
'Georgia-06G'	595	74	1	75	2	1	78	22
'Georgia-09B'	666	73	2	75	3	1	79	21
'Georgia-12Y'	688	71	1	72	2	0	74	26
'Georgia-13M'	845	72	2	74	3	1	78	22
'Tifguard'	617	72	1	73	2	1	76	24
'TifNV-High O/L'	615	71	2	73	2	1	76	24
'TUFRunner™511'	591	73	2	75	1	1	77	23
'TUFRunner™727'	640	72	2	74	2	1	77	23

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**Table 4**  
Three-Year Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2013-2015

Variety or Line	SMKRS (count/lb)	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'Florida 07'	648	71	2	73	2	1	76	24
'Flo-Run™107'	650	72	2	74	2	1	77	23
'Georgia-06G'	586	74	0	74	2	1	77	23
'Georgia-09B'	673	74	2	76	2	1	79	21
'Georgia-12Y'	685	72	2	74	2	0	76	24
'Tifguard'	622	73	1	74	2	1	77	23
'TUFRunner™727'	642	73	1	74	2	1	77	23

**Table 5**  
Average Shelled Seed Size Distribution of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2013-2015

Variety or Line	SMKRS Size Distribution								
	+ 21.0 Jumbo (Pct.)			-21.0 +18.0 Medium (Pct.)			-18.0 +16.0 No. 1 (Pct.)		
	2015	2014	2013	2015	2014	2013	2015	2014	2013
'C1801-949'	65.3	----	----	30.9	----	----	3.8	----	----
'C1801-985'	45.9	----	----	48.9	----	----	5.2	----	----
Florida 07	52.4	61.5	41.2	42.5	35.6	40.2	5.1	2.9	5.7
'Flo-Run™107'	31.9	48.4	27.7	58.6	46.8	62.7	9.5	4.8	9.6
'Georgia-06G'	58.5	60.5	46.2	36.4	36.4	49.4	5.1	3.1	4.4
'Georgia-09B'	61.6	61.0	40.1	33.6	35.8	55.7	4.8	3.2	4.2
'Georgia-12Y'	54.4	58.4	51.1	40.2	39.9	44.3	5.4	1.7	4.6
'Georgia-13M'	28.8	26.2	----	62.5	67.8	----	8.7	6.0	----
'Georgia-14N'	40.0	----	----	51.0	----	----	9.0	----	----
'Tifguard'	55.5	61.9	46.6	39.3	35.5	47.0	5.2	2.6	6.4
'TIF NV-High O/L'	50.9	65.3	57.7	42.0	30.8	36.1	7.1	3.9	6.2
'TUFRunner™297'	63.9	----	----	31.2	----	----	4.9	----	----
'TUFRunner™511'	56.6	56.2	----	37.4	41.1	----	5.9	2.7	----
'TUFRunner™727'	49.4	56.8	55.3	44.1	40.4	38.6	6.5	2.8	6.1
'13 AU/NPRL-10'	28.1	----	----	63.5	----	----	8.4	----	----
'13 AU/NPRL-12'	39.9	----	----	53.1	----	----	6.9	----	----



**Table 6**

*Occurrence of Tomato Spotted Wilt Virus (TSW) Hits, White Mold (WM) Hits, and Leafspot (LS) in the Irrigated Peanut Variety Test<sup>1</sup> at the Wiregrass Research and Extension Center, Headland, Ala., 2015*

Variety or Line	TSW <sup>2</sup> (#loci/40 ft.)	Leaf Spot Intensity <sup>3</sup>	WM1 (#loci/40 ft.)
'C1801-949'	3.0 cd <sup>4</sup>	3.0 ab	0.3 ab
'C1801-985'	3.0 cd	2.8 a-d	2.7 a
'Florida 07'	6.0 a-d	2.7 a-d	1.3 a
'Flo-Run™107'	11.8 ab	2.1 cd	1.3 ab
'Georgia-06G'	4.8 b-d	2.1 cd	1.3 ab
'Georgia-09B'	6.0 a-d	2.6 a-d	2.5 ab
'Georgia012Y'	2.5 d	2.9 a-d	0 b
'Georgia-13M'	1.8 d	3.5 a	1.3 ab
'Georgia-14N'	5.5 a-d	2.7 a-d	0 b
'Tifguard'	3.0 cd	2.1 d	1.8 ab
'TifNV-High O/L'	5.5 a-d	2.3 bcd	0.8 ab
'TUFRunner™297'	3.0 cd	3.3 ab	2.0 ab
'TUFRunner™511'	15.8 a	3.1 a-d	0.8 ab
'TUFRunner™727'	10.8 ab	2.5 bcd	0 b
'13 AU/NPRL-10'	5.3 a-d	3.6 a	0.8 ab
'13 AU/NPRL-12'	8.5 abc	2.3 bcd	0.8 ab

<sup>1</sup> Data supplied by A.K. Hagan, H.L. Campbell, K.L. Bowen, Dept. of Entomology and Plant Pathology, Auburn University, Ala.

<sup>2</sup> Tomato Spotted Wilt (TSW) and stem rot incidence is expressed as the number of disease loci per 40 foot of row.

<sup>3</sup> Leaf spot diseases were rated using the Florida 1 to 10 leaf spot rating scale.

<sup>4</sup> Means in each column that are followed by the same letter are not significantly different according to Fisher's least significant difference (LSD) test ( $P \leq 0.05$ ).

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**Table 7**

*Three-Year Yield of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2013-2015*

Variety or Line	2015 Average Yield (lbs/acre)	2 Year Average Yield (lbs/acre)	3 Year Average Yield (lb/acre)
'C1801-949'	7103	---- <sup>1</sup>	----
'Georgia-12Y'	6809	4961	5298
'Georgia-06G'	6635	5191	5264
'TUFRunner™ 297'	6329	----	----
'Georgia-13M'	6329	4657	----
'TifNV-High O/L'	6113	4803	4818
'TUFRunner™511'	6932	4768	----
'TUFRunner™727'	5843	4773	5009
'Flo-Run™ 107'	5807	4714	4704
'Georgia-09B'	5699	4460	4910
'Georgia-14N'	5662	----	----
'13 AU/NPRL-12'	5483	----	----
'Tifguard'	5393	4326	4402
'13 AU/NPRL-10'	5196	----	----
'C1801-985'	4774	----	----
'Florida 07'	4067	3753	4594
Overall Average	5837	4641	4874
CV (%)	17.2	32.0	27.0
LSD (0.05)	1428	1482	1070

<sup>1</sup> Not Tested

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**Table 8**  
Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center,  
Headland, Ala., 2015

Variety or Line	SMKRS (count/lb )	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'C1801-949'	564	67	1	68	3	1	72	28
'C1801-985'	685	66	1	67	3	1	71	29
'Florida 07'	651	69	1	70	3	1	74	26
'Flo-Run™107'	721	69	1	70	4	1	75	25
'Georgia-06G'	644	73	1	74	2	1	77	23
'Georgia-09B'	764	72	1	73	3	0	76	24
'Georgia012Y'	700	69	1	70	3	0	73	27
'Georgia-13M'	871	69	1	70	5	0	75	25
'Georgia-14N'	819	72	1	73	4	1	78	22
'Tifguard'	631	71	0	71	3	0	74	26
'TifNV-High O/L'	700	68	1	69	4	0	73	27
'TUFRunner™297'	586	72	0	72	3	1	76	24
'TUFRunner™511'	646	69	1	70	4	1	75	25
'TUFRunner™727'	661	70	1	71	3	1	75	25
'13 AU/NPRL-10'	733	67	1	68	4	1	73	27
'13 AU/NPRL-12'	824	68	2	70	4	0	74	26

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**Table 9**

*A Two-Year Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2014-2015*

Variety or Line	SMKRS (count/lb )	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'Florida 07'	691	70	1	71	3	1	75	25
'Flo-Run™ 107'	683	68	1	69	3	2	74	26
'Georgia-06G'	648	72	1	73	2	1	76	24
'Georgia-09B'	754	72	1	73	2	1	76	24
'Georgia-12Y'	709	68	1	69	3	1	73	27
'Georgia-13M'	884	69	2	71	4	1	76	24
'Tifguard'	648	73	1	74	2	1	77	23
'TifNV-High O/L'	640	70	2	72	3	1	76	24
'TUFRunner™511'	651	69	1	70	4	1	75	25
'TUFRunner™727'	668	72	2	74	2	1	77	23

**Table 10**

*Three-Year Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Ala., 2013-2015.*

Variety or Line	SMKRS (count/lb )	SMKRS (Pct.)	SS (Pct.)	TSMK (Pct.)	OK (Pct.)	DK (Pct.)	TK (Pct.)	Hulls (Pct.)
'Florida 07'	665	70	2	72	2	1	75	25
'Flo-Run™ 107'	685	69	2	71	3	2	76	24
'Georgia-06G'	647	72	1	73	2	1	76	24
'Georgia-09B'	723	73	2	75	2	0	77	23
'Georgia-12Y'	711	70	2	72	2	1	75	25
'Tifguard'	642	74	1	75	3	0	78	22
'TifNV-High O/L'	655	72	2	74	2	1	77	23

**Planting Rate Chart for 36 Inch Rows<sup>1</sup>**

Seed Per Pound	Seed Per Foot	Lbs/ Acre	Seed Per Foot	Lbs/ Acre	Seed Per Foot	Lbs/ Acre
600	5	121	6	145	7	178
625	5	116	6	140	7	171
650	5	112	6	134	7	164
675	5	108	6	129	7	158
700	5	104	6	124	7	152
725	5	100	6	120	7	147
750	5	97	6	116	7	142
775	5	94	6	112	7	138
800	5	91	6	109	7	133
825	5	88	6	106	7	129
850	5	85	6	102	7	125
875	5	83	6	100	7	122
900	5	81	6	97	7	118
925	5	78	6	94	7	115
950	5	76	6	92	7	112
975	5	74	6	89	7	109
1000	5	73	6	87	7	107
1025	5	71	6	85	7	104
1050	5	69	6	83	7	102
1075	5	68	6	81	7	99
1100	5	66	6	79	7	97

<sup>1</sup> Pounds of peanut seed at various seed count per pound required to plant 1 acre at five, six or seven seed per foot of row with single row width spacing. (For twin-rows at 36-inch centers, divide seed per foot for single row by two to determine seed per foot for each twin-row.)

(A) To determine pounds per acre at 36-inch row spacing, use the following formula:

$$\frac{\text{Seed per foot} \times \text{linear feet in 1 acre}}{\text{Seed count per pound}} = \text{pounds per acre}$$

(B) To determine linear feet in one acre at 36-inch row spacing:

$$\frac{43,560 \text{ square feet per acre}}{3 \text{ square feet}} = 14,520 \text{ linear feet in 1 acre}$$

(C) Example:

$$\frac{6 \text{ seed per foot} \times 14,520 \text{ linear feet}}{800 \text{ seed per pound}} = 109 \text{ pounds per acre}$$

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**Tests Duration Daily Rainfall Data Recorded at the Wiregrass Research and Extension Center, Headland, Ala., 2015**

DATE	APR (inches)	MAY (inches)	JUNE (inches)	JULY (inches)	AUG (inches)	SEPT (inches)	OCT (inches)
1				0.16			
2			0.57				
3					1.17		
4							
5							0.11
6				1.46			
7					0.38		
8			0.29				
9			1.20			0.38	
10			1.58		0.43		
11			0.44			0.38	
12					0.03		
13	1.01						
14	0.18					3.08	
15	2.66	1.23					
16	0.32						
17	0.62						
18		0.88			0.12		
19					0.01		
20	1.33	0.03		0.33	0.08		
21	0.01				0.31		
22				0.17		0.37	
23				0.03			
24			0.35		1.20		
25			0.03				
26		0.39					0.04
27	1.00	1.48		1.72			0.88
28		0.17				0.10	0.22
29	0.54		1.04			2.39	0.01
30						0.70	0.26
31					3.32		
TOTALS <sup>1</sup>	7.67	4.18	5.50	3.87	7.06	7.40	1.52

<sup>1</sup>Total daily rainfall from April through October, 2015=37.2 in.; 2014 = 35.05 in.; 2013 = 42.39 in.

# PEANUT TRIAL

**Tests Duration Daily Maximum Temperatures Recorded at the Wiregrass Research and Extension Center, Headland, Ala., 2015**

DATE	APR °F	MAY °F	JUNE °F	JULY °F	AUG °F	SEPT °F	OCT °F
1	84	77	91	88		88	86
2	86		87	92			73
3	80		84		94	92	
4		83	87		95	91	
5		83	84		97		71
6	85	81		92	92		71
7	80	83		92	89		77
8	89	85	92	92		93	82
9	90		91	93		91	82
10	88		86	92	94	91	
11		93	88		93	86	
12		91	87		93		88
13	86	91		96	94		79
14	75	90		94	94	83	82
15	86	91	93	95		81	80
16	79		95	95		82	84
17	70		94	95	91	82	
18		89	97		87	86	
19		90	97		91		89
20	78	90		98	90		71
21	78	91		95	88	90	77
22	77	86	95	96		85	79
23	82		98	96		81	82
24	86		98	95	95	83	
25			91		93	80	
26		89	94		89		85
27	88	85		93	87		74
28	70	86		96	93	77	69
29	67	85	91	97		73	81
30	70		90	96		81	84
31				95	88		

# PEANUT TRIAL

**Tests Duration Daily Minimum Temperatures Recorded at the Wiregrass Research and Extension Center, Headland, Ala., 2015**

DATE	APR °F	MAY °F	JUNE °F	JULY °F	AUG °F	SEPT °F	OCT °F
1	61	54	66	69		69	66
2	60		68	72			64
3	57		68		72	71	
4		51	67		74	72	
5		58	69		74		56
6	48	60		67	75		62
7	64	59		68	75		59
8	62	60	68	67		69	57
9	62		82	72		70	57
10	62		69	73	73	70	
11		65	69		76	70	
12		72	68		73		52
13	64	68		75	67		52
14	67	69		75	67	55	55
15	66	68	70	76		56	54
16	66		72	73		62	55
17	60		74	75	71	64	
18		67	75		71	64	
19		68	74		71		46
20	59	68		73	74		47
21	53	67		73	73	65	49
22	53	57	74	74		66	54
23	56		74	75		67	58
24	58		71	74	72	67	
25			72		72	62	
26		59	73		61		60
27	61	65		72	62		63
28	61	66		73	64	61	63
29	60	66	68	75		70	57
30	52		70	76		72	56
31				75	67		



## Descriptions Of 2015 Peanut Variety Test Entries

### 1. 'C1801-949' and 2. 'C1801-985'

Are breeding lines developed by Dr. Corley Holbrook, USDA-AMS, Tifton, Georgia. Both are mid-late in maturity with tomato spotted wilt virus resistance.

### 2. 'Florida 07'

Developed by Dr. Barry Tillman, University of Florida Agricultural Experiment Station. Released in 2006 under the 1994 amendment of the Plant Variety Protection Act. Also carries a patent on the high oleic trait prohibiting non-licensed parties from saving seed for replanting. 'Florida 07' is medium-late (140 – 145 days) in maturity, about 5 days later than Florunner with runner growth habit and pod and seed size larger than Florunner. 'Florida 07' carries resistance to tomato spotted wilt virus and white mold and tolerance to leafspot.

### 3. 'Flo-Run™107'

Developed by Dr. Barry Tillman, University of Florida Agricultural Experiment Station. Released in 2010 and protected under the 1994 Amendment of the Plant Variety Protection Act. Also carries a patent on the high-oleic trait prohibiting non-licensed parties from saving seed for replanting. It is a runner type variety with medium maturity and similar to 'Georgia Greener' in seed size, and produces a high percentage of medium size kernels. The variety has demonstrated good resistance to tomato spotted wilt virus and moderate resistance to white mold.

### 4. 'Georgia-06G'

Developed by Dr. Bill Branch, University of Georgia Agricultural Experiment Station. Released in 2006 under the 1994 Amendment of the Plant Variety Protection Act. Medium maturity, normal oleic/linoleic fatty acid ratio, with larger pod and seed size than 'Georgia Green' and resistant to tomato spotted wilt virus.

### 5. 'Georgia-09B'

Developed by Dr. Bill Branch, University of Georgia Agricultural Experiment Station. Released in 2009 and protected under the 1994 Amendment of the Plant Variety Protection Act. Also carries a patent on the high-oleic trait prohibiting non-licensed parties from saving seed for replanting. It is a Runner type that has medium seed size, medium maturity and is resistant to tomato spotted wilt virus.

### 6. 'Georgia-12Y'

A medium seed size runner developed by Dr. Bill Branch, University of Georgia. It was released in 2012 under the 1994 Amendment of the Plant Variety Protection Act. It is not high oleic. It is resistant to tomato spotted wilt virus and tolerant to white mold. It is similar to Georgia-10T in late maturity.

## PEANUT TRIAL

### 7. 'Georgia-13M'

Developed by Dr. Bill Branch, University of Georgia Agricultural Experiment Station. Released in 2013 and protected under the 1994 Amendment of the Plant Variety Act. Also carries a patent of the high-oleic trait prohibiting non-licensed parties from saving seed for planting. It is a Runner type with medium seed size and a large percentage of medium grade seed. It is medium in maturity and resistant to tomato spotted wilt virus.

### 8. 'Georgia-14N'

Developed by Drs. Bill Branch and Tim Brennaman of the University of Georgia. It was released in 2014 under the 1994 Amendment of the Plant Variety Protection Act. Also carries a patent on the high-oleic trait prohibiting non-licensed parties from saving seed for planting. It is resistant to root knot nematode and tomato spotted wilt virus. It is a small seeded runner type with medium maturity.

### 9. 'Tifguard'

Developed by Dr. Corley Holbrook, USDA-ARS, Tifton, Georgia and released in 2007. Has normal oil chemistry. Is mid-season in maturity and carries root-knot nematode and tomato spotted wilt virus resistance.

### 10. 'TIF NV-High O/L'

Developed by Dr. Corley Holbrook, USDA-ARS, Tifton, Ga. Released under the 1994 Amendment of the Plant Variety Act. Also carries a patent on the high-oleic trait prohibiting non-licensed parties from saving seed for planting. It carries resistance to tomato spotted wilt virus and root knot nematode. It is most similar to 'Tifguard' in plant and seed characteristics.

### 11. 'TUFRunner™297'

Developed by Dr. Barry Tillman of the University of Florida. Released in 2014 under the 1994 Amendment of the Plant Variety Protection Act. It carries high oleic oil chemistry and is an extra-large seeded runner type with medium maturity. It carries resistance to white mold, tomato spotted wilt virus, but is susceptible to leaf spots. It has a prominent center steam.

### 12. 'TUFRunner™511'

Developed by Dr. Barry Tillman, University of Florida Agricultural Experiment Station. Released in 2014 under the 1994 Amendment of the Plant Variety Protection Act. Also carries a patent on the high-oleic trait prohibiting non-licensed parties from saving seed for planting. Large seeded Runner type with approximately 140 days to maturity. Moderately susceptible to tomato spotted wilt virus.

**13. 'TUFRunner™ 727'**

Developed by Dr. Barry Tillman, University of Florida. Released in 2012 under the 1994 Amendment of the Plant Variety Protection Act. It carries a patent for high oleic oil chemistry and seed can not be reproduced without the owner's permission. It has medium seed size with medium maturity, and good resistance to tomato spotted wilt virus, late leafspot and white mold.

**14. '13 AU/NPRL-10' and 16. '13 AU/NPRL-12'**

Are breeding lines developed by Dr. Charles Chen of Auburn University in cooperation with the National Peanut Research Lab at Dawson, Ga. Both are medium in maturity with tomato spotted wilt resistance.

# PEANUT TRIAL

## Seed Sources

### **Dr. W. D. Branch**

University of Georgia  
Department of Crop and Soil Sciences  
Coastal Plain Experiment Station  
Tifton, Georgia 31793

**‘Georgia-06G’**

**‘Georgia-09B’**

**‘Georgia-12Y’**

**‘Georgia-13M’**

**‘Georgia-14N’**

### **Dr. B.L. Tillman**

University of Florida  
North Florida Research & Education Center  
3925 Highway 71  
Marianna, Florida 32446

**‘Florida 07’**

**‘FloRun™107’**

**‘TUFRunner™297’**

**‘TUFRunner™511’**

**‘TUFRunner™727’**

### **Dr. C.C. Holbrook**

USDA-ARS  
Crop Genetics and Breeding Research Unit  
Coastal Plain Experiment Station  
Tifton, Georgia 31793

**‘C1801-949’**

**‘C1801-985’**

**‘Tifguard’**

**‘TifNV-High O/L’**

### **Dr. Charles Chen**

202 Funchess Hall  
Auburn University, Alabama 36849

**‘13 AU/NPRL 10’**

**‘13 AU/NPRL 12’**