

Alabama Performance Comparison: Peanut Varieties 2013

Departmental Series No. 333
Crop, Soil and Environmental Sciences Dept.
Alabama Agricultural Experiment Station, 2014
William Batchelor, Director
Auburn University
Auburn, AL

In cooperation with the Alabama Cooperative Extension System
(Alabama A&M University and Auburn University)



Authors

J.P. Bostick

Adjunct Professor,
Crop, Soil and Environmental
& Executive Vice President,
Alabama Crop Improvement
Association
Auburn, AL

B.E. Gamble

Associate Director,
Wiregrass Research and Extension
Center
Headland, AL

L.W. Wells

Director,
Wiregrass Research and Extension
Center
Headland, AL

Table of Contents

Introduction and Discussion	5
Size and Grade Data Terms	6
Tables 1-15	
Three-Year Average Yield of Irrigated Peanut Varieties, Wiregrass, 2010, 2011 & 2013	7
Average Size and Grade of Irrigated Peanut Varieties, Wiregrass, 2013	8
Two-Year Average Size and Grade of Irrigated Peanut Varieties, Wiregrass Research, 2011 & 2013	8
Three-Year Average Size and Grade of Irrigated Peanut Varieties, Wiregrass, 2010, 2011, & 2013	9
Average Shelled Seed Size Distribution of Irrigated Peanut Varieties, Wiregrass, 2010, 2011 & 2013	9
Occurrence of Tomato Spotted Wilt Virus (TSWV) Hits, White Mold (WM) Hits, and Leafspot (LS) in the Irrigated Peanut Variety Test, Wiregrass, 2013	10
Three-Year Yield of Dryland Peanut Varieties, Wiregrass, 2011- 2013	11
Average Size and Grade of Dryland Peanut Varieties, Wiregrass, 2013	12
Two-Year Average Size and Grade of Dryland Peanut Varieties, Wiregrass, 2012-2013	13
Three-Year Average Size and Grade of Dryland Peanut Varieties, Wiregrass, 2010 - 2013	13
Occurrence of Tomato Spotted Wilt Virus (TSWV) Hits, White Mold (WM) Hits, and Leafspot (LS) in the Dryland Peanut Variety Test, Wiregrass, 2013	14
Planting Rate Chart	15
Daily Rainfall Data Recorded, Wiregrass, 2013	16
Daily Maximum Temperatures Recorded, Wiregrass, 2013	17
Daily Minimum Temperatures Recorded, Wiregrass, 2013	18
Descriptions of 2013 Peanut Variety Test Entries	19
Sources of Seed	22

Acknowledgments and Disclaimers

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.

Issued in furtherance of Alabama Cooperative Extension System work in agriculture and home economics Acts of May 8 and June 30, 1914, and other related acts, in cooperation with U. S. Department of Agriculture. The Alabama Cooperative Extension System (Alabama A&M University and Auburn University) offers educational programs, materials, and equal opportunity employment to all people without regard to race, color, national origin, sex, age, veteran status, or disability.

Note: In 2012 the irrigated test data were deemed unreliable due to stand loss from heavy rains and inadequate drainage after planting.

Information contained herein is available to all persons regardless of race, color, sex, or national origin.

The 2013 Alabama Performance Comparison of Peanut Varieties

James P. Bostick, Larry W. Wells and Brian E. Gamble

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 2013 tests were conducted at the Wiregrass Research and Extension Center in Headland, Alabama. During 2013, 14 entries were evaluated under irrigation and dry-land conditions.

The experimental design for each test was a randomized complete block consisting of two-row plots, 20 feet long, replicated four times. The dry-land tests were planted on May 9, 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. All entries and their respective dig dates were the same for irrigated and dry-land tests. There were no entries in the 2013 tests considered to be earlier in maturity than Georgia Green. Entries with maturity near the same as Georgia Green were dug on September 30. These entries were C1805-2-9, C1805-3-43, FloRun™ ‘107’, Georgia-06G, Georgia-07W, Georgia-08V, Georgia-09B, Georgia Greener, Tifguard, and TUFRunner™ ‘727’. Entries moderately later than Georgia Green were Florida 07 and Georgia-11J and were dug on October 9. Entries considerably later than Georgia Green were Georgia-10T and Georgia 12Y and were dug October 16.

The information presented here represents data from three years at one location. Yield and disease occurrence data have been subjected to an analysis 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 percent level of confidence. The CV, which is expressed as a percentage, is a relative measure of variation within a set of data. CV values of 8-12 percent are generally considered acceptable for yield data of agronomic crops. CV values in the disease data are considerably higher than this. However, this is expected due to random occurrence of disease in the field.

Size and Grade Data Terms

Data were 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. (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.

SMKRS % (sound mature kernels riding screen)—Percentage of shelled sample as described above.

SS % (sound splits)—Percentage of shelled sample that are split or broken but not damaged.

TSMK % (total sound mature kernels)—Percentage of the shelled sample comprised of sound mature kernels plus sound splits.

OK % (other kernels)—Percentage of 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.

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

TK % (total kernels)—Percentage of the shelled sample kernels including TSMK, OK, and DK.

Hulls % —Percentage of 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.

Table 1.
Three-Year Average Yield of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2010, 2011 & 2013

Variety or Line	2013 lbs/ac	2-Year Avg. lbs/ac	3-Year Avg. lbs/ac
Georgia-06G	6870	6661	6371
Georgia-12Y	6579	- ¹	-
Georgia Greener	6398	6466	6253
C1805-2-9	6216	-	-
TUFRunner™ '727'	6207	-	-
Georgia-07W	6089	6162	6117
Georgia-09B	6062	5944	5838
Flo-Run™ '107'	5962	-	-
Georgia-10T	5781	5899	-
Tifguard	5663	5835	5711
C1805-3-43	5563	-	-
Georgia-08V	5291	5731	5642
Georgia-11J	4873	-	-
Florida 07	4828	5409	5596
Overall Average-	5884	6013	5932
CV (%)	2.02	2.01	1.99
LSD (0.05)	783	588	480

¹Not tested

Table 2.
Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2013

Variety or Line	SMKRS Count/lb	%						Hulls
		SMKRS	SS	TSMK	OK	DK	TK	
C1805-2-9	589	73	1	74	2	0	76	24
C1805-3-43	641	71	2	73	3	0	76	24
Flo-Run™ '107'	706	73	1	74	3	1	78	22
Florida 07	636	72	1	73	2	1	76	24
Georgia-06G	643	76	1	77	2	0	79	21
Georgia-07W	676	74	2	76	2	0	78	22
Georgia-08V	426	75	1	76	0	1	77	23
Georgia-09B	689	76	1	77	2	0	79	21
Georgia-10T	674	75	4	79	1	0	80	20
Georgia-11J	385	74	0	74	0	1	75	25
Georgia-12Y	709	75	2	77	2	0	79	21
Georgia Greener	748	75	2	77	2	0	79	21
Tifguard	633	75	1	76	2	0	78	22
TUFRunner™ '727'	645	75	1	76	2	0	78	22

Table 3.
Two-Year Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2011 & 2013

Variety or Line	SMKRS Count/lb	%						Hulls
		SM-KRS	SS	TSMK	OK	DK	TK	
Flo-Run™ '107'	699	71	3	74	4	1	79	21
Florida 07	608	70	2	72	2	1	75	25
Georgia-06G	707	69	3	72	4	1	77	23
Georgia-07W	656	67	4	71	2	1	78	22
Georgia-08V	704	71	3	74	3	1	78	22
Georgia-09B	674	72	2	75	2	1	78	22
Georgia-10T	656	74	5	79	2	0	81	19
Georgia Greener	713	73	3	76	3	0	79	21
Tifguard	618	74	1	75	3	0	78	22

Table 4.

Three-Year Average Size and Grade of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2010, 2011, & 2013

Variety or Line	SMKRS Count/lb	%						
		SM- KRS	SS	TSMK	OK	DK	TK	Hulls
Florida 07	624	65	5	75	2	1	78	22
Georgia-06G	634	73	2	75	2	1	78	22
Georgia-07W	714	71	3	74	2	1	77	23
Georgia-08V	447	71	2	73	3	1	77	23
Georgia-09B	701	73	3	76	2	1	79	21
Georgia Greener	712	72	3	75	3	1	79	21
Tifguard	641	71	1	72	3	1	76	24

Table 5.

Average Shelled Seed Size Distribution of Irrigated Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2010, 2011 & 2013

Variety or Line	SMKRS Size Distribution (%)								
	+21.0 Jumbo			-21.0 +18.0 Medium			-18.0 +16.0 Number 1		
C1805-2-9	58.0 ¹	-	-	37.0	-	-	5.0	-	-
C1805-3-43	57.7	-	-	36.1	-	-	6.2	-	-
Flo-Run™ '107'	27.7	33.1	-	62.7	59.1	-	9.6	7.6	-
Florida 07	41.2	55.2	63.3	53.1	40.2	32.1	5.7	4.5	4.6
Georgia-06G	46.2	57.1	59.3	49.4	38.3	35.2	4.4	4.5	5.5
Georgia-07W	30.0	38.3	46.7	63.8	56.6	46.3	6.2	5.1	7.0
Georgia-08V	77.6	82.5	75.5	19.5	12.6	21.2	2.9	4.9	3.4
Georgia-09B	40.1	57.8	56.1	55.7	38.8	38.8	4.2	3.4	5.1
Georgia-10T	54.2	59.8	-	41.3	37.6	-	4.5	3.3	-
Georgia-11J	91.7	-	-	7.3	-	-	1.0	-	-
Georgia-12Y	51.1	-	-	44.3	-	-	4.6	-	-
Georgia Greener	33.7	43.4	49.8	61.0	52.2	43.0	5.3	4.4	7.2
Tifguard	46.6	59.3	63.2	47.0	36.3	29.7	6.4	4.5	7.1
TUFRunner™ '727'	55.3	-	-	38.6	-	-	6.1	-	-

¹Not tested

Table 6.

Occurrence of Tomato Spotted Wilt Virus (TSWV) Hits, White Mold (WM) Hits, and Leafspot (LS) in the Irrigated Peanut Variety Test at the Wiregrass Research and Extension Center, Headland, Alabama 2013

Variety or Line	Average TSWV Hits/Plot¹	Variety or Line	Average WM Hits/Plot¹	Variety or Line	Average LS Ratings/Plot²
Flo-Run™ '107'	7.00	Georgia-11J	2.25	Georgia-10T	6.325
Georgia-08V	5.25	Flo-Run™ '107'	0.75	Georgia-08V	6.275
Georgia-09B	4.50	Georgia-08V	0.75	Georgia-12Y	6.075
Florida 07	2.75	Georgia-09B	0.75	Flo-Run™ '107'	5.925
Georgia-11J	2.75	C1805-2-9	0.50	Georgia-09B	5.425
Georgia Greener	2.75	Florida 07	0.50	Florida 07	4.875
TUFRunner™ '727'	2.75	Georgia-10T	0.25	Georgia-06G	4.75
Georgia-06G	1.75	Georgia Greener	0.25	Georgia Greener	4.667
Georgia-12Y	1.75	C1805-3-43	0.00	C1805-2-9	4.625
C1805-3-43	1.50	Georgia-06G	0.00	Georgia-07W	4.450
Georgia-10T	1.25	Georgia-07W	0.00	Georgia-11J	4.375
Tifguard	1.00	Georgia-12Y	0.00	C1805-3-43	4.325
C1805-2-9	0.25	Tifguard	0.00	TUFRunner™ '727'	4.325
Georgia-07W	0.25	TUFRunner™ '727'	0.00	Tifguard	4.150
Overall Average	2.54		0.43		5.05
CV (%)	100.59		156.30		9.81
LSD (0.05)	3.64		0.96		0.70

¹Hits equal length of row up to one linear foot with severely diseased plants.

²Rating 1 (lowest) to 10 (highest)

Table 7.
*Three-Year Yield of Dryland Peanut Varieties at the Wiregrass Research and Extension Center,
 Headland, Alabama 2011- 2013*

Variety or Line	2013 Average Yield lbs/ac	2-Year Average Yield lbs/ac	3-Year Average Yield lbs/ac
Florida 07	6244	6035	5258
Georgia-12Y	5971	¹	-
Georgia-09B	5909	5518	5106
C1805-2-9	5745	5499	-
TUFRunner™ '727'	5481	-	-
Georgia-11J	5472	5549	-
Georgia-06G	5409	5717	5258
Georgia-10T	5282	5518	4864
Georgia Greener	5273	5368	4958
Georgia-07W	5209	5735	5227
Georgia-08V	4891	4978	4674
C1805-3-43	4846	5354	-
Flo-Run™ '107'	4683	4737	4398
Tifguard	4556	5172	4828
Overall Average	5348	5426	4952
CV (%)	13.4	12.9	19.4
LSD (0.05)	1028	697	777

¹Not tested

Table 8.
Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2013

Variety or Line	SMKRS Count/lb	%						
		SMKRS	SS	TSMK	OK	DK	TK	Hulls
C1805-2-9	563	74	1	75	1	0	76	24
C1805-3-43	611	73	2	75	2	1	78	22
Flo-Run™ '107'	689	73	2	75	3	1	79	21
Florida 07	614	72	2	74	1	1	76	24
Georgia-06G	639	77	1	78	1	1	80	20
Georgia-07W	645	75	1	76	1	1	78	22
Georgia-08V	428	75	1	76	1	1	78	22
Georgia-09B	660	76	2	78	1	0	79	21
Georgia-10T	685	74	5	79	1	0	80	20
Georgia-11J	395	75	0	75	0	1	76	24
Georgia-12Y	716	73	3	76	2	0	78	22
Georgia Greener	710	76	2	78	2	1	81	19
Tifguard	631	76	1	77	1	0	78	22
TUFRunner™ '727'	630	74	2	76	2	1	79	21

Table 9.
Two-Year Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2012-2013

Variety or Line	SMKRS Count/lb	%						Hulls
		SMKRS	SS	TSMK	OK	DK	TK	
C1805-2-9	598	71	2	73	2	1	76	24
C1805-3-43	622	72	2	74	3	1	78	22
Flo-Run™ '107'	707	69	3	72	4	1	77	23
Florida 07	620	67	4	71	2	1	74	26
Georgia-06G	704	71	3	74	3	1	78	22
Georgia-07W	679	72	2	74	2	1	77	23
Georgia-08V	508	70	3	73	1	1	75	25
Georgia-09B	700	72	3	75	2	2	79	21
Georgia-10T	660	73	6	79	2	1	82	18
Georgia-11J	430	73	1	74	1	1	76	24
Georgia Greener	712	73	3	76	3	2	81	19
Tifguard	666	74	1	75	2	1	78	22

Table 10.
Three-Year Average Size and Grade of Dryland Peanut Varieties at the Wiregrass Research and Extension Center, Headland, Alabama 2010 - 2013

Variety or Line	SMKRS Count/lb	%						Hulls
		SM- KRS	SS	TSMK	OK	DK	TK	
Flo-Run™ '107'	701	70	3	73	4	1	78	22
Florida 07	606	68	3	71	2	1	74	26
Georgia-06G	629	74	2	76	2	2	80	20
Georgia-07W	664	74	2	76	2	1	79	21
Georgia-08V	472	71	2	73	1	1	75	25
Georgia-09B	686	73	3	76	2	1	79	21
Georgia-10T	668	73	6	79	2	0	81	19
Georgia Greener	700	72	3	75	3	1	79	21
Tifguard	645	73	1	74	2	1	77	23

Table 11.
Occurrence of Tomato Spotted Wilt Virus (TSWV) Hits, White Mold (WM) Hits, and Leafspot (LS) in the Dryland Peanut Variety Test at the Wiregrass Research and Extension Center, Headland, Alabama 2013

Variety or Line	Average TSWV Hits/Plot¹	Variety or Line	Average WM Hits/Plot¹	Variety or Line	Average LS Ratings/Plot²
TUFRunner™ '727'	5.50	Georgia-11J	2.50	Georgia-08V	6.575
Flo-Run™ '107'	4.25	Georgia-08V	1.75	Georgia-10T	6.400
Georgia-08V	3.50	Florida 07	1.50	Georgia-12Y	5.950
Florida 07	3.50	Flo-Run™ '107'	0.75	Georgia-09B	5.675
Georgia-11J	2.50	Georgia-06G	0.50	Florida 07	5.450
Georgia Greener	2.00	C1805-3-43	0.50	Flo-Run™ '107'	5.125
Georgia-07W	2.00	Georgia Greener	0.50	Georgia-11J	5.000
Georgia-06G	1.50	Georgia-10T	0.25	Georgia Greener	4.750
Georgia-09B	1.50	Georgia-12Y	0.25	C1805-3-43	4.575
C1805-2-9	1.25	Georgia-07W	0.25	Georgia-06G	4.525
Georgia-10T	1.25	C1805-2-9	0.00	TUFRunner™ '727'	4.425
Tifguard	1.25	Georgia-09B	0.00	C1805-2-9	4.250
Georgia-12Y	1.00	Tifguard	0.00	Tifguard	4.200
C1805-3-43	0.75	TUFRunner™ '727'	0.00	Georgia-07W	4.200
Overall Average	2.27		0.63		5.08
CV (%)	113.07		132.02		9.21
LSD (0.05)	3.67		1.18		0.67

¹Hits equal length of row up to one linear foot with severely diseased plants.

²Rating 1 (lowest) to 10 (highest)

Table 12.
Planting Rate Chart¹ 36-inch Rows

Seed per Pound	Seed per Foot	Seed per Acre	Seed per Foot	Seed per Acre	Seed per Foot	Seed per 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

¹Pounds 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.) To determine pounds per acre at 36-inch row spacing, use the following formula:

(A) Seed per foot x linear feet in 1 acre = pounds per acre seed count per pound.

(B) To determine linear feet in one acre at 36-inch row spacing: 43,560 square feet per acre = 14,520 linear feet in 1 acre 3 square feet.

(C) Example: 6 seed per foot x 14,520 linear feet = 109 pounds per acre 800 seed per pound.

Table 13.*Daily Rainfall Data Recorded at the Wiregrass Research and Extension Center, Headland, Alabama 2013*

Date	inches						
	April	May	June	July	August	September	October
1				0.05	0.52		
2		0.02		1.01	0.01	0.47	
3		0.01	1.27	0.09	0.55	0.02	
4	0.24	0.42		3.40		1.49	
5	0.08	0.59	0.14	2.27			
6				0.51			
7		0.01	0.01	0.43			0.11
8			0.10				
9							
10			0.50			0.01	
11			0.25	0.19			
12	0.87			0.13			
13				0.12	0.91		
14	0.03		0.01	0.19	0.02	0.05	
15	1.32			0.78	0.47		
16				0.21	2.40	0.12	
17			0.01	0.02	1.17	0.01	
18			1.19	0.62	1.07		0.01
19			0.72		1.28		
20	0.72	0.06	0.04	0.85			
21		0.022		1.66	0.23		
22				0.37	0.28	0.53	0.06
23				1.11	0.55	0.04	
24			0.06	1.73		0.60	
25			0.02	0.26	1.35	0.55	
26			0.69			0.01	
27							
28	0.47			0.08			
29	0.95		0.47				
30	0.13						
31							
Totals ¹	4.81	1.13	5.48	16.08	10.01	3.90	0.18

¹Total daily rainfall from April through October, 2013 = 42.39 in.; 2012 = 24.2 in.; 2011 = 16.97

Table 14.
*Daily Maximum Temperatures Recorded at the Wiregrass Research and Extension Center,
 Headland, Alabama 2013*

Date	°F						
	April	May	June	July	August	September	October
1	80	81	90	83	92	93	79
2	76	69	90	86	90	89	83
3	80	74	93	91	89	86	82
4	61	71	87	74	90	87	86
5	57	61	92	72	93	91	88
6	60	75	85	80	91	91	87
7	74	69	77	83	91	90	88
8	80	76	88	88	91	91	74
9	84	81	91	89	93	90	82
10	87	85	79	90	92	92	72
11	86	82	79	89	93	87	81
12	84	76	92	86	94	88	83
13	75	79	95	90	94	90	84
14	79	75	95	84	92	90	84
15	61	82	94	84	87	90	80
16	81	87	91	88	87	91	74
17	84	86	93	88	79	90	82
18	83	87	92	91	80	88	85
19	84	84	89	91	79	83	73
20	78	88	88	91	87	85	73
21	65	91	88	85	84	89	74
22	72	91	88	90	90	79	73
23	71	91	87	86	84	77	73
24	77	90	86	88	86	82	72
25	82	86	92	91	87	80	75
26	79	88	92	90	84	84	64
27	81	90	92	90	84	76	70
28	84	91	90	91	86	81	75
29	81	90	95	89	88	80	79
30	77	91	88	91	90	79	80
31		91		92	92		80

Table 15.
Daily Minimum Temperatures Recorded at the Wiregrass Research and Extension Center, Headland, Alabama 2013

Date	°F						
	April	May	June	July	August	September	October
1	61	60	70	72	72	70	63
2	50	63	71	70	73	70	64
3	51	63	70	72	74	68	63
4	55	52	71	69	74	65	63
5	46	45	68	69	74	69	65
6	41	45	69	70	72	70	65
7	48	48	67	70	73	70	65
8	52	53	65	71	74	70	58
9	54	56	70	70	73	70	58
10	58	60	70	72	72	71	58
11	59	63	71	71	72	69	58
12	60	61	73	71	74	68	60
13	49	49	74	70	72	70	60
14	59	51	73	70	73	66	61
15	57	53	73	72	71	66	59
16	60	62	72	72	70	70	58
17	65	61	73	71	69	71	58
18	65	65	71	70	68	67	61
19	62	66	70	71	69	66	62
20	42	66	69	72	70	66	55
21	45	68	71	71	70	63	56
22	45	67	69	71	70	62	58
23	58	69	69	72	68	68	53
24	57	67	70	69	69	70	44
25	58	56	70	70	70	69	44
26	48	60	70	72	65	67	39
27	50	66	72	71	66	61	42
28	62	65	76	70	66	58	50
29	63	68	69	71	68	58	53
30	60	70	70	73	70	63	54
31		69		74	69		54

Descriptions of 2013 Peanut Variety Test Entries

1. C1805-2-9 and 2. C1805-3-43

Breeding lines submitted by Dr. Corley Holbrook, USDA-ARS, Tifton, Georgia. Both lines are resistant to root-knot nematode, high oleic, medium maturity and similar in size to Tifguard.

3. FloRun™ ‘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. Florida 07

Developed by Drs. Dan Gorbet and 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.

5. 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.

6. Georgia-07W

Developed by Drs. Bill Branch and Tim Brenneman, University of Georgia Agricultural Experiment Station. Released in 2007 under the 1994 Amendment of the Plant Variety Protection Act. Medium maturity with resistance to white mold and tomato spotted wilt virus. It is a large-seeded runner with normal oleic/linoleic oil chemistry.

7. Georgia-08V

Developed by Dr. Bill Branch, University of Georgia Agricultural Experiment Station. Released in 2008 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 Virginia-type variety that has large seed and is resistant to tomato spotted wilt virus.

8. 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.

9. Georgia-10T

Developed by Dr. Bill Branch, University of Georgia Agricultural Experiment Station. Released in 2010 and protected under the 1994 Amendment of the Plant Variety Protection Act. The variety has large seed size and late maturity. It has demonstrated excellent grades and tomato spotted wilt virus resistance.

10. Georgia-11J

A Virginia type developed by Dr. Bill Branch, University of Georgia. It was released in 2011 under the 1994 Amendment of the Plant Variety Protection Act. It is high oleic with good tomato spotted wilt virus resistance. It has larger pod and kernel size and later maturity than Georgia 08V.

11. 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.

12. Georgia Greener

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. Generally darker green foliage than Georgia Green.

13. 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.

14. 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.

Sources of Seed

Dr. W. D. Branch

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

Georgia-06G
Georgia-07W
Georgia-08V
Georgia-09B
Georgia-10T
Georgia-11J
Georgia-12Y
Georgia Greener

Dr. B.L. Tillman

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

Florida 07
FloRun™ ‘107’
TUFRunner™ ‘727’

Dr. C.C. Holbrook

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

C1805-2-8
C1805-3-43
Tifguard