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1999 Peanut, Cotton and Tobacco Performance Tests

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Preface

This research report presents the results of the 1999 statewide performance tests of peanut, cotton, and tobacco. The tests for various evaluations were conducted at several or all of the following locations: Tifton, Plains, and Midville in the Coastal Plain region and Athens in the Piedmont region. For identification of the test site locations, consult the map in this report.

Agronomic information such as plant height, lodging, disease occurrence, etc., is listed along with the yield data. Information concerning planting and harvest dates, soil type, and culture and fertilization practices used in each trial is included in footnotes.

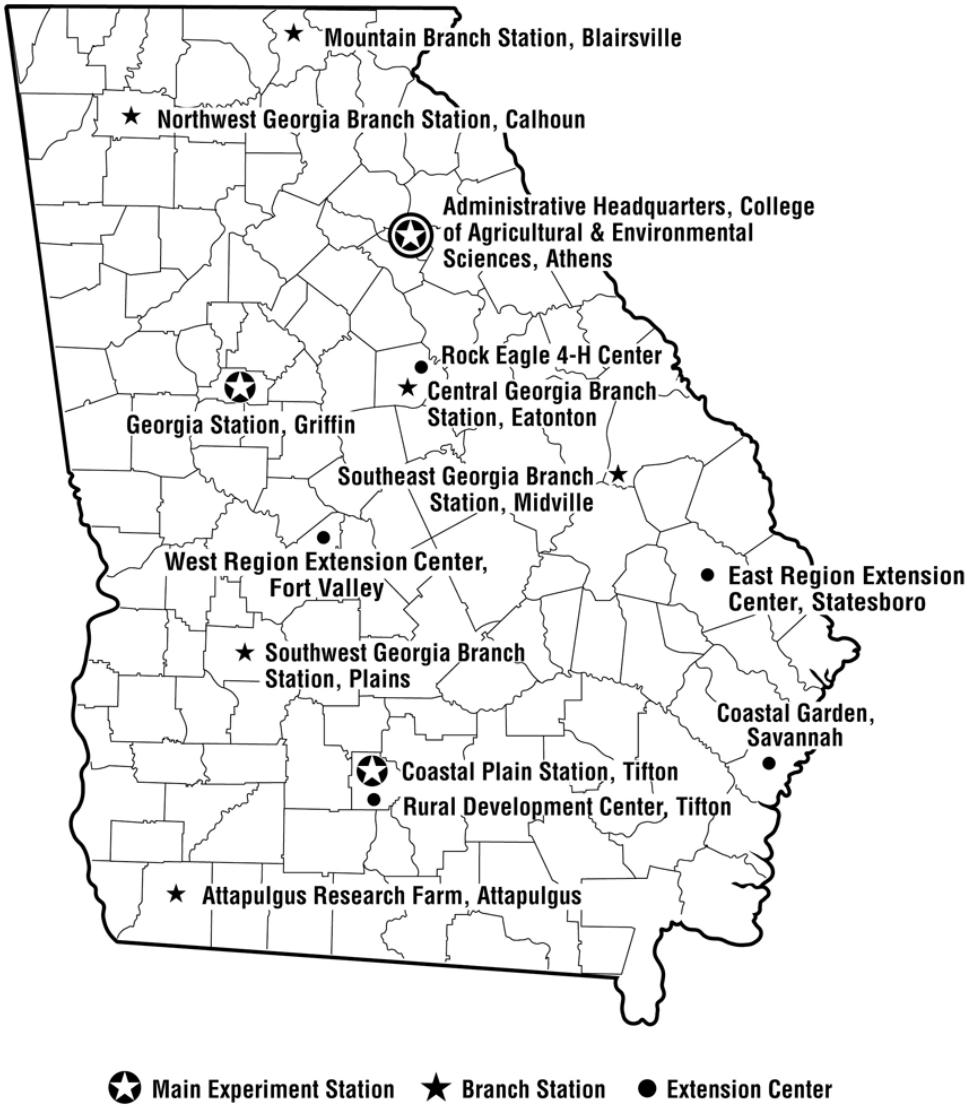
In order to have a broad base of information, a number of varieties, including experimental lines, are included in the trials, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose, and agreed upon by College of Agriculture agronomists, are presented in the 2000 Spring Planting Schedule for Georgia (available from your county extension office). Pesticides used for production practices are included for the benefit of the reader and do not imply any endorsement or preferential treatment by the University of Georgia Agricultural Experiment Station. For additional information, contact your local county extension agent or the nearest experiment station.

The least significant difference (LSD) at the 5 percent level has been included in the tables to aid in comparing hybrids. If the yields of any two hybrids differ by the LSD value or more, they may be considered different in yield ability.

This report is one of five publications presenting the 1999 performance of agronomic crops in Georgia. For more information concerning other crops, refer to one of the following research reports: 1999 Corn Performance Tests (Report 661), 1998-99 Small Grains Performance Tests (Report 659), 1998-99 Canola Performance Tests (Report 660), and 1999 Soybean, Sorghum

Grain and Silage, Grain Millet, and Summer Annual Forages Performance Tests (Report 663).

This report, along with performance test information on other crops, is also available at our web site www.swvt.uga.edu. Additional information may be obtained by writing J. LaDon Day, Crop and Soil Sciences Department, University of Georgia, Georgia Station, Griffin, GA 30223-1797.



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The Season with 1999 Rainfall

Growing conditions did not improve during 1999 as below normal rainfall and high temperatures occurred across the state. Although dry weather impeded early planting, clear weather in April and May allowed a relatively timely planting of the 1999 Georgia crops. As a result of unfavorable weather, the status of crops remained fair to poor throughout the season and much irrigation was required.

The severe drought conditions that Georgia has been experiencing since April 1998 continued throughout the growing season. Rainfall at the four test sites is listed below. Total seasonal rainfall amounts were below normal at all test locations with one site (Plains, GA) receiving only 60 percent of long-term average.

1999 Rainfall[1]

Month	**Athens**[2]	**Midville**	**Plains**	**Tifton**
	---------- inches ----------			
March	2.46	1.57	2.42	1.13
April	1.77	2.75	2.65	2.07
May	3.50	1.62	2.45	2.14
June	5.32	2.87	3.30	7.57
July	2.80	4.79	3.75	4.65
August	2.01	2.30	1.78	1.57
September	2.14	4.53	0.83	2.05
October	3.47	4.27	1.93	0.73
Total	**23.47**	**24.70**	**19.11**	**21.91**
Normal (8 mo)	32.26	31.17	31.99	32.72

[1] Data provided in part by Dr. G. Hoogenboom, Georgia Station, Griffin, GA.
[2] Plant Sciences Farm.

Georgia farmers continue to reduce planted acres of some row crops. Tobacco acres were down 20 percent, while acres planted to cotton increased 14 percent over 1998. Peanut acreage remained steady for the 1999 crop year.

Overall, the 1999 growing season was extremely difficult for growers mainly due to high temperatures and very dry soils. Water usage as irrigation was at an all time high and some farmers were at or nearing allocation. Even though irrigation helped, production problems lingered. High temperatures caused boll lock and short staple in cotton. Disease on peanuts and tobacco was prevalent, but the Tomato Spotted Wilt Virus caused the most damage. Some tobacco producers in southern counties experienced Cucumber Mosaic Virus damage.

The harvest season progressed at a rapid rate. An early frost the first week in November was a concern to peanut growers that had recently dug peanuts with high moisture seed. Peanut and tobacco production decreased 8 percent and 30 percent, respectively, from 1998. Cotton production increased slightly at 1 percent more than 1998.

PEANUT

Tifton, Georgia

Yield and Grade Performance Peanut Variety Trial, 1999, Irrigated
Tifton, Georgia

Variety	Digging Date	Yield		TSMK (%)	OK (%)	DK (%)	ELK (%)	Seed (no./lb)
		(lb/A)	W-DMRT[1]					
Spanish Types								
Georgia Browne	09/02	3706	a	75.3	2.3	0.2	4.3	975
Tamspan 90	08/12	2600	c	70.9	4.0	0.2	3.0	986
Spanco	08/05	1738	fg	67.7	6.0	0.1	3.5	990
Pronto	08/05	1670	g	71.1	4.7	0.2	2.4	1040
Starr	08/05	1489	gh	63.7	10.6	0.2	0.3	1260
Average	08/12	2241		69.7	5.5	0.24	2.7	1050
Valencia Types								
GA 952514[2]	08/12	2908	b	64.5	3.5	0.6	12.0	782
GA 972527[2]	08/24	2601	c	65.6	2.9	1.0	12.9	748
GA 972525[2]	08/24	2494	cd	63.2	1.5	1.7	35.5	526
GA 952512[2]	08/12	2234	de	66.0	2.5	1.5	8.4	788
GA 952506[2]	08/12	1987	ef	68.7	4.0	0.4	10.7	902

Georgia Red	08/12	1970	ef	69.5	3.0	1.6	14.7	790
Valencia McRan	07/30	1275	h	59.2	9.3	0.5	0.2	1093
N.M. Valencia C	07/30	1269	h	58.0	11.3	0.4	0.4	1085
N.M. Valencia A	07/30	1230	h	58.1	10.9	0.6	0.3	1157
Average	*08/10*	*1996*		*63.6*	*5.4*	*0.9*	*10.6*	*875*
[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability. [2] Advanced Georgia Breeding Line.								
Planted:	April 13, 1999.							
Fertilization:	Applied 1 ton/a lime, 500 lb/a 3-9-18, 3.5 lb/a Solubor, and 1500 lb/a gypsum.							
Soil Type/Test:	Tifton loamy sand; pH = 5.6, P_2O_5 = 81, K_2O = 91, Ca = 264, Mg = 19 lb/a.							
Management:	Treated with Sonalan+Dual, Temik, Basagran, Lorsban, Folicur (3 sprays), Abound (2 sprays), and Lannate (1 spray).							
Digging Date:	**July 30**	**Aug. 5**	**Aug. 12**	**Aug. 24**	**Sept. 2**			
Rainfall (in.):	18.14	18.23	19.31	19.96	20.48			
Irrigation (in.):	5.50	5.50	5.50	6.30	6.30			
Total (in.):	23.64	23.73	24.81	26.26	26.78			
Runner Types								
Georgia Green	09/02	4807	a	75.8	4.4	0.4	11.8	771
GA 962540[2]	09/20	4504	ab	77.9	1.4	0.7	48.0	723
GA 942511[2]	09/20	4351	ab	76.4	2.1	1.5	48.4	648
Florida MDR 98	09/20	4081	bc	74.1	2.4	0.5	35.4	711
C-99R	09/20	4029	bc	71.9	1.7	3.4	33.1	623
ViruGard	08/25	3692	cd	73.8	2.4	0.4	31.4	636
Southern Runner	09/20	3649	cd	73.7	3.7	0.4	17.6	831
Georgia Bold	09/02	3419	de	77.3	1.9	0.5	36.6	680
GK-7 High Oleic	09/02	3021	ef	74.7	3.1	1.4	24.6	657
Andru 93	08/25	2811	f	70.7	5.4	0.8	17.4	756
SunOleic 97R	09/02	2786	f	75.0	2.8	0.5	24.2	725
Tamrun 96	09/02	2657	f	70.4	5.6	0.5	20.6	797
Flavor Runner 458	09/02	1724	g	69.4	6.7	2.1	13.5	831

Average	*09/08*	*3502*		*73.9*	*3.4*	*1.0*	*27.9*	*722*
Virginia Types								
Georgia Hi-O/L	09/02	4515	ab	72.8	1.4	4.2	50.0	510
GA 942516[2]	09/20	4458	ab	75.9	1.0	2.1	60.5	501
Gregory	09/02	4128	bc	68.6	1.2	3.2	48.5	444
VA-C 92R	09/02	4069	bc	72.1	1.2	2.1	46.3	457
NC-V 11	08/25	3836	cd	70.9	1.6	1.3	34.2	548
VA 98R	08/25	3424	de	69.3	2.3	3.3	33.1	556
NC 7	08/25	2963	ef	67.3	1.4	4.1	43.4	480
NC 12C	08/25	2626	f	70.9	1.3	1.7	48.2	494
Average	*08/31*	*3752*		*71.0*	*1.4*	*2.8*	*45.5*	*499*
[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability. [2] Advanced Georgia Breeding Line.								
Planted:	April 16, 1999.							
Fertilization:	Applied 1 ton/a lime, 500 lb/a 3-9-18, 3.5 lb/a Solubor, and 1500 lb/a gypsum.							
Soil Type/Test:	Tifton loamy sand; pH = 5.8, P_2O_5 = 74, K_2O = 62, Ca = 317, Mg = 15 lb/a.							
Management:	Treated with Sonalan+Dual, Temik, Basagran, Lorsban, Folicur (4 sprays), Abound (2 sprays), and Lannate (2 spray).							
Digging Date:	**Aug. 25**	**Sept. 2**	**Sept. 20**					
Rainfall (in.):	20.28	20.48	23.01					
Irrigation (in.):	7.20	7.20	7.20					
Total (in.):	27.48	27.68	30.21					
Test conducted by W. D. Branch in cooperation with A. E. Coy and J. L. Day.								

Yield and Grade Performance Peanut Variety Trial, 1999, Nonirrigated Tifton, Georgia								
Variety	**Digging Date**	**Yield**		**TSMK (%)**	**OK (%)**	**DK (%)**	**ELK (%)**	**Seed (no./lb)**
		(lb/A)	**W-DMRT[1]**					
Runner Types								
Georgia Green	09/13	3956	a	77.1	1.5	0.8	15.2	756
ViruGard	09/01	3721	abcde	75.2	1.2	0.8	32.6	577
Georgia Bold	09/13	3665	abcde	76.4	1.3	1.1	31.6	677
GA 942511[2]	09/28	3519	abcdef	74.2	1.5	3.2	48.3	620

C-99R	09/28	3432	bcdefg	75.3	2.1	0.8	32.1	626
Andru 93	09/01	3398	cdefg	73.5	2.8	2.0	16.3	725
GA 962540[2]	09/28	3310	defg	75.1	2.3	1.1	40.1	725
Florida MDR 98	09/28	3227	efg	73.1	1.6	4.3	35.5	672
Tamrun 96	09/13	2949	gh	74.4	1.5	1.4	26.1	702
SunOleic 97R	09/13	2931	ghi	75.0	2.5	1.9	26.4	696
Southern Runner	09/28	2595	hi	73.9	2.7	0.3	16.7	823
GK-7 High Oleic	09/13	2427	ij	75.0	1.4	2.4	29.6	587
Flavor Runner 458	09/13	1952	j	75.4	3.7	0.5	16.7	752
Average	*09/17*	*3160*		*74.9*	*2.0*	*1.5*	*28.2*	*688*
Virginia Types								
Georgia Hi-O/L	09/13	3924	ab	70.9	1.9	6.3	44.3	482
NC-V 11	09/01	3858	abc	73.6	0.7	3.0	41.9	490
VA 98R	09/01	3788	abcd	70.2	1.4	3.5	37.7	494
GA 942516[2]	09/28	3525	abcdef	75.5	0.9	1.7	57.1	519
Gregory	09/13	3514	abcdef	62.2	0.7	11.8	47.3	415
NC 12C	09/01	3304	defg	71.1	0.5	3.5	47.3	462
NC 7	09/01	3145	fg	69.0	0.7	4.6	45.5	450
VA-C 92R	09/13	2931	ghi	70.5	0.6	5.3	43.9	441
Average	*09/09*	*3499*		*70.4*	*0.9*	*5.0*	*45.6*	*469*

[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability.
[2] Advanced Georgia Breeding Line.

Planted:	April 16, 1999.							
Fertilization:	Applied 500 lb/a 3-9-18, 3.5 lb/a Solubor, and 1500 lb/a gypsum.							
Soil Type/Test:	Tifton loamy sand; pH = 6.1, P_2O_5 = 43, K_2O = 48, Ca = 363, Mg = 50 lb/a.							
Management:	Treated with Sonalan+Dual, Temik, Basagran, Lorsban, Folicur (4 sprays), Abound (2 sprays), and Lannate (2 spray).							
Digging Date:	**Sept. 1**	**Sept. 13**	**Sept. 28**					
Rainfall (in.):	20.48	22.61	24.36					

Test conducted by W. D. Branch in cooperation with A. E. Coy and J. L. Day.

Plains, Georgia

Yield and Grade Performance Peanut Variety Trial, 1999, Irrigated Plains, Georgia								
Variety	**Digging Date**	**Yield**		**TSMK (%)**	**OK (%)**	**DK (%)**	**ELK (%)**	**Seed (no./lb)**
		(lb/A)	**W-DMRT[1]**					
Runner Types								
Georgia Green	09/17	5118	ab	75.0	3.0	0.0	.	753
GA 942511[2]	10/11	4913	bcd	75.5	1.5	0.0	.	632
Andru 93	09/09	4772	bcde	70.0	5.0	1.0	.	605
C-99R	10/11	4663	bcde	73.5	3.0	0.0	.	634
Florida MDR98	10/11	4612	bcde	75.5	2.0	0.5	.	677
Tamrun 96	09/17	4492	cdef	72.0	4.5	0.0	.	753
Georgia Bold	09/17	4463	cdef	74.5	3.5	0.0	.	659
ViruGard	09/09	4417	def	74.5	2.0	0.5	.	531
GK-7 High Oleic	09/17	4328	efg	74.5	2.5	0.5	.	686
Southern Runner	10/11	4307	efg	73.0	3.0	0.5	.	786
SunOleic 97R	09/17	3976	fghi	73.0	3.5	0.5	.	749
Flavor Runner 458	09/17	3748	hi	74.5	3.5	0.5	.	724
GA 962540[2]	10/11	3703	i	75.0	3.0	0.0	.	758
Average	*09/25*	*4424*		*73.9*	*3.1*	*0.3*	.	*688*
Virginia Types								
Georgia Hi-O/L	09/17	5528	a	74.5	1.0	0.5	56.5	537
GA 942516[2]	10/11	5116	ab	74.0	2.5	0.0	45.0	626
NC-V 11	09/09	4970	bc	71.0	2.0	0.5	36.5	698
VA 98R	09/09	4681	bcde	71.0	1.5	0.0	37.5	508
Gregory	09/17	4680	bcde	72.0	2.0	0.5	63.5	459
NC 7	09/09	4269	efgh	70.5	1.5	0.0	47.5	441
VA-C 92R	09/17	3875	ghi	70.0	1.5	0.5	43.5	516
NC 12C	09/09	3779	hi	70.0	1.5	0.0	49.0	466
Average	*09/16*	*4612*		*71.6*	*1.7*	*0.3*	*47.4*	*531*

[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability.
[2] Advanced Georgia Breeding Line.

Planted:	May 4, 1999.							
Fertilization:	9 lb N, 54 lb P_2O_5, and 27 lb K_2O/acre.							
Soil Type/Test:	Greenville sandy clay loam; P = Medium, K = High, pH = 6.0, Ca = 732, and Mg = 162.							
Management:	Moldboard plowed and rototilled; treated with Sonalan, Vernam, Temik, Lorsban, Lannate, Bravo (3 sprays), and Folicur (4 sprays), .							
Digging Date:	**Sept. 13**	**Sept. 17**	**Sept. 29**					
Rainfall (in.):	11.1	11.7	11.9					
Irrigation (in.):	8.0	8.0	8.0					
Total (in.):	19.1	19.7	19.9					
Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.								

Yield and Grade Performance Peanut Variety Trial, 1999, Nonirrigated Plains, Georgia

Variety	Digging Date	Yield		TSMK (%)	OK (%)	DK (%)	ELK (%)	Seed (no./lb)
		(lb/A)	W-DMRT[1]					
Runner Types								
Georgia Green	10/11	3641	abc	73.5	3.0	1.0	.	857
GA 942511[2]	10/11	3564	abcd	73.5	1.5	0.5	.	691
C-99R	10/11	3402	bcde	72.5	2.5	0.0	.	688
Florida MDR98	10/11	3350	bcde	75.5	1.5	1.0	.	682
Andru 93	09/17	3158	cdef	69.5	4.5	1.0	.	635
ViruGard	09/17	3118	def	72.5	3.0	1.0	.	624
Georgia Bold	10/11	2923	efg	71.5	3.5	1.0	.	742
Tamrun 96	10/11	2919	efg	70.5	4.0	1.0	.	787
SunOleic 97R	10/11	2856	fg	72.0	4.0	0.5	.	730
GK-7 High Oleic	10/11	2806	fg	70.5	3.5	2.5	.	873
Flavor Runner 458	10/11	2580	g	74.0	3.5	0.0	.	859
Southern Runner	10/11	2563	g	71.5	3.0	0.5	.	808
GA 962540[2]	10/11	2508	g	76.0	1.0	0.0	.	785
Average	*10/07*	*3030*		*72.5*	*3.0*	*0.8*	.	*751*
Virginia Types								

Gregory	10/11	3896	a	70.0	1.0	1.0	48.0	500
Georgia Hi-O/L	10/11	3822	ab	72.5	1.5	3.0	42.5	507
VA 98R	09/17	3770	ab	71.0	2.0	1.0	35.0	533
NC-V 11	09/17	3460	abcd	70.0	2.0	0.5	27.5	555
VA-C 92R	10/11	3107	def	68.5	3.0	1.5	42.0	565
GA 942516[2]	10/11	2950	efg	72.5	1.5	1.0	45.5	645
NC 7	09/17	2749	fg	68.5	1.5	0.5	38.0	482
NC 12C	09/17	2566	g	69.5	2.0	0.5	38.0	502
Average	*09/29*	*3290*		*70.3*	*1.8*	*1.1*	*39.6*	*536*
[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability. [2] Advanced Georgia Breeding Line.								
Planted:	May 4, 1999.							
Fertilization:	9 lb N, 54 lb P_2O_5, and 27 lb K_2O/acre.							
Soil Type/Test:	Greenville sandy clay loam; P = Medium, K = High, pH = 6.0, Ca = 732, and Mg = 162.							
Management:	Moldboard plowed and rototilled; treated with Sonalan, Vernam, Temik, Lorsban, Lannate, Bravo (3 sprays), and Folicur (4 sprays), .							
Digging Date:	**Sept. 13**	**Sept. 17**	**Sept. 29**					
Rainfall (in.):	11.1	11.7	11.9					
Test conducted by A. E. Coy, M. D. Pippin, and R. R. Pines.								

Midville, Georgia

Yield and Grade Performance Peanut Variety Trial, 1999, Irrigated Midville, Georgia								
Variety	**Digging Date**	**Yield**		**TSMK (%)**	**OK (%)**	**DK (%)**	**ELK (%)**	**Seed (no./lb)**
		(lb/A)	**W-DMRT[1]**					
Runner Types*								
GA 942511[2]	10/11	5109	a	75.5	2.0	1.0	.	805
Florida MDR98	10/11	4561	ab	76.5	3.0	0.0	.	768
C-99R	10/11	4531	b	74.5	2.5	0.5	.	726
GA 962540[2]	10/11	3747	c	76.0	2.5	0.0	.	830
Southern Runner	10/11	3599	cde	75.5	2.0	0.5	.	798

Andru 93	09/09	3547	cde	68.0	5.0	0.5	.	699
ViruGard	09/09	3182	de	68.5	4.0	0.0	.	674
Average	10/02	4039		73.5	3.0	0.4	.	757
Virginia Types*								
GA 942516[2]	10/11	4627	ab	73.5	1.0	1.5	53.0	858
NC-V 11	09/09	3882	c	63.5	4.5	1.0	31.0	575
VA98R	09/09	3641	cd	65.0	4.0	1.0	27.5	572
NC 12C	09/09	3112	de	66.0	2.0	0.5	57.0	577
NC 7	09/09	3072	e	63.5	4.0	1.0	31.0	516
Average	*09/15*	*3667*		*66.3*	*3.1*	*1.0*	*39.9*	*619*

[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability.
[2] Advanced Georgia Breeding Line.

* The Runner Types: Georgia Bold, Georgia Green, Flavor Runner 458, GK-7 High Oleic, SunOleic 97R, and Tamrun 96; and Virginia Types: Georgia Hi-O/L, Gregory, and VA-C 92R were planted in this experiment and dug on 09/17. They were eliminated due to excessive pod loss resulting from delayed combining, which was caused by wet field conditions after digging. The editors have elected not to include the yields from these six Runner types and three Virginia types because the results do not accurately reflect the peanut variety performance at this location during the 1999 season.

Planted:	April 28, 1999.							
Fertilization:	0 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre. Sidedress: 34 lb N/acre.							
Soil Type/Test:	Dothan loamy sand; P = Medium, K = Medium, and pH = 6.0.							
Management:	Moldboard plowed and rototilled; treated with Sonalan, Dual, Temik, Starfire, Storm, Bravo (3 sprays) and Folicur (4 sprays).							
Digging Date:	**Sept. 9**	**Sept. 17**	**Oct. 11**					
Rainfall (in.):	15.6	15.6	23.7					
Irrigation (in.):	12.8	12.8	12.8					
Total (in.):	28.4	28.4	36.5					
Test conducted by A. E. Coy, M. D. Pippin, and R. D. McNeill, IV.								

Yield and Grade Performance Peanut Variety Trial, 1999, Nonirrigated
Midville, Georgia

Variety	Digging Date	Yield		TSMK (%)	OK (%)	DK (%)	ELK (%)	Seed (no./lb)
		(lb/A)	W-DMRT[1]					
Runner Types								
GA 942511[2]	10/11	1935	a	57.5	7.0	3.0	.	786
Florida MDR98	10/11	1670	ab	60.0	7.0	2.5	.	737

Georgia Bold	10/11	1516	bc	69.5	5.5	1.0	.	907
Georgia Green	10/11	1458	bcd	64.5	8.0	1.5	.	943
C-99R	10/11	1448	bcd	57.0	7.5	7.5	.	713
Southern Runner	10/11	1395	bcd	60.5	7.5	2.0	.	971
GK-7 High Oleic	10/11	1346	cde	63.5	7.5	2.5	.	876
SunOleic 97R	10/11	1257	cdef	66.0	6.5	1.0	.	907
Andru 93	*09/17	1101	efgh	51.0	15.0	4.5	.	905
Tamrun 96	10/11	1092	efgh	60.5	8.0	3.0	.	846
ViruGard	*09/17	936	ghij	45.5	14.0	7.0	.	914
Flavor Runner 458	10/11	862	hij	64.0	7.5	1.5	.	907
GA 962540[2]	10/11	767	ijk	51.5	9.5	3.5	.	821
Average	*10/07*	*1291*		*59.3*	*8.5*	*3.1*	.	*864*
Virginia Types								
VA-C 92R	10/11	1176	defg	59.5	5.5	3.5	27.5	587
VA 98R	*09/17	1043	fghi	40.5	8.5	10.0	11.0	915
NC-V 11	*09/17	968	fghij	38.5	11.5	7.5	7.0	950
Georgia Hi-O/L	10/11	961	ghij	59.5	5.0	4.0	22.0	621
Gregory	10/11	958	ghij	50.0	6.0	3.0	17.5	589
GA 942516[2]	10/11	938	ghij	54.5	6.5	2.5	17.0	755
NC 12C	*09/17	740	jk	46.5	7.5	7.5	12.0	880
NC 7	*09/17	491	k	38.5	7.5	8.5	13.5	889
Average	*09/29*	*909*		*48.4*	*7.3*	*5.8*	*15.9*	*773*

*Wet field conditions after digging delayed combining which caused excessive pod loss.
[1] Waller-Duncan Multiple Range Tests: Yields within the same column followed by the same letter do not differ significantly at the 0.05 level of probability.
[2] Advanced Georgia Breeding Line.

Planted:	April 28, 1999.							
Fertilization:	0 lb N, 0 lb P_2O_5, and 0 lb K_2O/acre. Sidedress: 0 lb N/acre.							
Soil Type/Test:	Dothan loamy sand; P = Very High, K = Medium, and pH = 6.0.							
Management:	Moldboard plowed and rototilled; treated with Sonalan, Dual, Temik, Bravo (3 sprays), and Folicur (4 sprays).							
Digging Date:	**Sept. 17**	**Oct. 11**						
Rainfall (in.):	15.6	23.7						

Test conducted by A. E. Coy, M. D. Pippin, and R. D. McNeill, IV.

COTTON

Early Maturing Cotton Variety Performance

Early Maturing Cotton Variety Performance, 1999, Irrigated Athens, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
SG 747	998 a	42.8	81.9	1.08	10.0	27.2	5.6
GA 93-299	991 a	41.6	82.4	1.08	10.0	33.5	5.3
SG 501 BR	957 a	41.4	81.9	1.08	9.9	32.1	5.2
FM 963	951 a	41.2	80.4	1.04	9.6	31.0	5.0
STX 9901	933 a	42.8	82.0	1.07	9.6	27.8	5.4
PSC 355	931 a	41.3	82.0	1.05	10.0	31.6	5.6
SG 125	918 a	40.4	81.5	1.05	10.0	27.8	5.1
PM 1220 BR	909 a	42.1	81.6	1.07	9.8	29.7	5.6
SS 9802	894 ab	42.3	82.3	1.11	9.4	27.3	5.1
STX 9903	889 ab	44.2	81.6	1.04	9.5	28.1	5.4
PM 1560 BG	888 ab	44.1	81.4	1.04	10.0	29.6	5.6
SG 501	873 ab	42.0	81.9	1.08	9.9	32.1	5.2
DP 428 B	872 ab	39.7	81.9	1.08	9.7	31.0	5.3
PM 1218 BR	860 ab	43.7	81.8	1.04	9.7	28.6	5.7
DP 422 BR	843 ab	40.4	81.6	1.05	9.9	26.7	5.2
AP 7115	838 ab	41.7	81.3	1.05	9.7	28.8	5.0
HCR 9310	829 ab	40.0	82.8	1.11	9.7	27.5	5.5
SG 125 BR	824 ab	41.7	81.5	1.05	10.0	27.8	5.1
PSC 636	819 ab	41.3	81.0	1.05	9.3	27.8	5.4
PSC 569	817 ab	40.6	87.2	1.05	10.0	33.8	5.6
ACSI EXP 0052	812 ab	43.8	81.9	1.11	9.2	31.0	5.4
HCR 9220	801 ab	41.7	81.6	1.04	10.0	29.1	5.2
PMX 0425	797 ab	41.0	82.5	1.09	9.6	29.4	5.4
BXN 47	779 ab	43.0	82.2	1.06	9.5	28.3	5.2
STX 9902	777 ab	43.8	81.5	1.05	9.6	29.4	5.5
SG 125 RR	775 ab	40.0	81.5	1.05	10.0	28.3	5.1
DP 425 RR	735 ab	40.7	81.5	1.07	9.5	27.8	5.5
SS 9901	722 ab	41.6	81.1	1.06	10.0	27.6	5.6

Terra 292	704 ab	38.8	81.8	1.09	9.5	30.9	5.3
SG 105	696 ab	40.6	82.0	1.06	9.7	29.8	5.5
HCR 9228	693 ab	40.6	80.7	1.03	9.7	30.5	4.8
DP 458 BR	670 ab	40.5	81.7	1.10	10.0	30.6	5.5
DP 451 BR	659 ab	38.5	82.4	1.06	9.4	27.2	5.5
ST 474	633 ab	44.0	81.8	1.06	9.8	29.1	5.6
PSC 952	581 ab	42.1	81.6	1.08	10.0	28.8	5.3
HCR 7114-46	481 b	40.9	81.3	1.09	9.6	28.3	5.2
Average	*810*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 12, 1999.						
Harvested:	November 1, 1999.						
Fertilization:	70 lb N, 35 lb P_2O_5, and 70 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**	**Sept.**	
Rainfall (in):	2.23	4.24	5.36	3.71	2.20	3.39	
Irrigation (in):			1.00		2.00		
Tested performed by Larry Thompson, Shelby Baker, and Richard Smith.							

Early Maturing Cotton Variety Performance, 1999, Irrigated
Midville, Georgia

Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
DP 458 BR	1250 a	39.0	83.8	1.14	9.8	31.6	4.8
STX 9901	1200 ab	42.6	83.9	1.13	9.3	27.4	4.7
PSC 355	1191 a-c	40.0	84.7	1.11	11.0	31.7	4.8
SS 9802	1160 a-c	39.8	84.5	1.16	9.5	29.9	4.5
DP 451 BR	1117 a-c	36.4	83.5	1.14	9.6	29.1	4.7
ACSI EXP 0052	1106 a-c	41.3	83.8	1.14	9.7	34.4	4.8
PSC 952	1088 a-d	40.1	82.9	1.08	9.9	30.3	4.5
GA 93-299	1084 a-d	39.6	83.7	1.14	10.0	34.7	4.6
ST 474	1052 a-d	41.7	83.7	1.10	9.6	27.9	4.9
PSC 569	1050 a-d	39.8	83.6	1.11	10.0	34.5	4.7
STX 9903	1043 a-d	41.7	84.3	1.12	9.9	30.2	4.7
AP 7115	1042 a-e	40.3	83.5	1.11	9.7	28.2	4.5
PSC 636	1039 a-e	38.0	83.7	1.12	9.4	28.9	4.6
SS 9901	1031 a-e	39.6	82.0	1.09	10.0	29.8	4.9

HCR 9310	1023 a-e	38.3	84.4	1.19	9.7	28.8	4.5
SG 105	996 a-e	39.9	85.4	1.13	10.0	30.0	5.1
HCR 9220	982 a-e	39.8	83.7	1.10	9.6	27.6	4.7
BXN 47	969 a-e	41.4	84.3	1.13	9.6	28.9	4.9
Terra 292	966 a-e	35.5	85.1	1.16	9.7	28.4	4.7
STX 9902	958 a-e	41.8	84.2	1.10	9.9	29.3	4.7
DP 428 B	957 a-e	36.9	84.3	1.15	9.3	27.9	4.4
SG 501 BR	957 a-e	39.5	84.9	1.11	10.0	31.7	4.8
FM 963	941 a-e	39.6	83.4	1.07	9.8	31.8	4.4
SG 747	915 a-e	41.0	84.8	1.11	10.0	28.1	5.0
DP 425 RR	909 a-e	37.3	84.1	1.13	9.5	28.1	4.8
HCR 9228	897 a-e	40.0	83.5	1.10	9.7	31.0	4.2
SG 501	885 a-e	42.3	84.4	1.12	10.0	32.9	4.8
SG 125	861 a-e	40.4	84.0	1.13	9.7	27.4	4.8
SG 125 BR	859 a-e	37.8	83.9	1.13	9.8	28.7	4.6
SG 125 RR	854 a-e	39.6	84.1	1.09	10.0	29.2	4.5
PMX 0425	846 a-e	38.5	83.8	1.11	9.8	29.7	4.8
DP 422 BR	808 a-e	36.7	84.4	1.12	9.8	27.8	4.2
HCR 711446	730 b-e	41.0	83.4	1.11	9.4	26.9	4.3
PM 1560 BG	721 c-e	39.2	84.8	1.11	10.0	28.8	5.0
PM 1220 BR	622 de	39.7	84.2	1.08	9.6	28.7	5.0
PM 1218 BR	564 e	40.8	83.5	1.07	9.4	28.1	5.0
Average	*963*						
1. Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	June 2, 1999.						
Harvested:	November 11, 1999.						
Fertilization:	75 lb N, 85 lb P_2O_5, and 75 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**		
Rainfall (in):	2.86	1.77	2.81	4.87	3.25		
Irrigation (in):		1.50	3.00	3.75	4.50		
Tested performed by Larry Thompson, Shelby Baker, Charles Perry, and Bob McNeill, IV.							

Early Maturing Cotton Variety Performance, 1999, Irrigated Plains, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
SS 9901	1294 a	39.1	82.4	1.11	9.5	28.0	4.5
SG 125 RR	1269 ab	38.8	82.8	1.06	9.8	26.7	4.6
BXN 47	1265 ab	41.5	82.5	1.09	9.5	28.2	5.0
SG 105	1263 ab	37.5	83.0	1.08	9.7	29.0	4.8
PSC 636	1262 ab	36.6	82.6	1.12	8.9	27.2	4.6
PSC 355	1255 ab	40.2	83.2	1.10	10.0	30.2	5.1
ACSI EXP 0052	1254 ab	40.4	83.7	1.12	8.6	31.0	4.4
PM 1560 BG	1250 ab	39.9	83.6	1.09	9.9	28.7	4.5
PM 1218 BR	1247 ab	42.4	82.0	1.03	9.1	27.1	5.1
PMX 0425	1247 ab	38.5	82.7	1.11	9.3	27.8	4.9
STX 9901	1239 ab	41.7	82.0	1.11	9.4	26.6	5.0
SG 125	1234 ab	39.1	83.6	1.11	10.0	26.6	4.7
SG 747	1234 ab	39.9	83.3	1.09	9.8	26.7	5.1
ST 474	1205 ab	41.2	82.4	1.08	9.8	28.5	5.0
STX 9903	1193 ab	42.0	82.6	1.07	9.2	27.1	4.9
SG 501	1193 ab	39.1	82.2	1.10	9.6	28.6	4.8
PSC 952	1192 ab	39.2	81.9	1.09	9.8	28.4	4.8
SG 501 BR	1185 ab	38.8	83.6	1.07	9.8	28.1	4.7
STX 9902	1183 ab	41.5	82.3	1.08	9.5	28.6	5.1
AP 7115	1145 ab	38.5	82.8	1.10	9.5	26.7	4.4
HCR 9220	1143 ab	38.1	82.1	1.09	9.3	26.3	4.4
PSC 569	1138 ab	39.1	82.7	1.08	10.0	31.7	5.2
DP 451 BR	1137 ab	36.4	82.7	1.10	9.4	26.1	4.5
DP 425 RR	1136 ab	37.0	82.9	1.11	9.6	26.8	4.8
PM 1220 BR	1133 ab	40.4	82.8	1.08	9.3	28.5	4.9
SG 125 BR	1126 ab	38.3	81.9	1.05	9.7	26.6	4.8
DP 428 B	1111 ab	39.0	82.9	1.09	9.4	25.9	4.7
DP 422 BR	1098 ab	36.4	82.7	1.10	9.6	25.4	4.4
GA 93-299	1093 ab	39.1	82.1	1.11	9.6	31.2	4.8
SS 9802	1054 ab	37.2	83.1	1.12	9.3	28.0	4.5
DP 458 BR	1048 ab	38.5	82.9	1.09	9.7	29.6	5.0
HCR 7114-46	1034 ab	39.9	82.4	1.09	9.7	26.2	4.5
HCR 9228	1028 ab	37.0	82.6	1.11	9.2	29.1	3.8
HCR 9310	995 ab	36.7	81.9	1.11	9.5	28.5	4.5

FM 963	951 ab	38.0	82.4	1.07	9.4	29.9	4.1
Terra 292	925 b	34.8	82.2	1.11	9.5	25.4	4.4
Average	*1160*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 3, 1999.						
Harvested:	October 19, 1999.						
Fertilization:	72 lb N, 72 lb P_2O_5, and 36 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**	**Sept.**	
Rainfall (in):	3.24	2.83	3.48	4.41	1.95	.93	
Irrigation (in):		1.40	1.50	1.70	3.00		
Tested performed by Larry Thompson, Shelby Baker, Stan Jones, and Ronnie Pines.							

Early Maturing Cotton Variety Performance, 1999, Irrigated
Tifton, Georgia

Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
PSC-355	1421 a	40.0	86.0	1.11	11.4	31.3	4.8
ACSI EXP 0052	1394 ab	40.8	84.6	1.15	9.3	31.6	4.5
PM 1220 BR	1392 ab	39.5	83.7	1.07	11.2	29.2	4.9
STX-9901	1358 a-c	40.1	84.0	1.07	10.6	30.0	4.5
SG-501 BR	1352 a-d	38.0	83.7	1.02	11.9	28.9	5.1
SG-125 BR	1343 a-e	36.8	84.2	1.05	11.7	27.1	4.4
PM 1560 BG	1342 a-e	38.8	83.7	1.09	11.1	29.4	4.6
PM 1218 BR	1334 a-f	39.7	84.1	1.08	10.7	28.1	4.5
SG-125	1328 a-f	37.7	84.6	1.11	12.3	27.7	4.6
SS 9901	1323 a-g	38.8	82.9	1.05	10.8	28.8	5.0
SG 747	1315 a-h	38.8	83.9	1.07	11.7	27.7	4.8
HCR 9220	1308 a-h	37.8	83.9	1.06	11.1	27.6	4.6
STX 9903	1306 a-h	40.6	84.0	1.06	10.9	28.2	4.8
HCR 711446	1295 a-h	40.5	82.5	1.07	11.0	28.5	4.4
SG 105	1289 a-h	37.5	83.7	1.07	11.2	29.4	5.0
SG 501	1285 a-i	39.5	84.9	1.06	11.2	31.9	4.6
BXN 47	1284 a-i	39.3	84.0	1.06	11.0	29.0	5.0
DP 428 B	1280 a-i	36.3	83.4	1.09	11.4	26.3	4.6
PSC 952	1275 a-i	40.4	85.0	1.10	11.4	30.4	4.8
DP 458 BR	1269 a-i	38.2	83.1	1.07	10.8	29.6	5.1

PMX 0425	1262 b-j	37.4	84.1	1.08	11.7	29.0	5.0
DP 451 BR	1254 b-j	35.9	83.8	1.07	11.1	27.0	4.7
STX 9902	1246 b-j	38.8	84.4	1.08	11.3	29.3	4.7
PSC 569	1238 b-k	39.9	83.6	1.04	11.5	31.0	5.1
DP 422 BR	1209 c-k	35.1	84.0	1.06	12.4	27.3	4.6
ST 474	1207 c-k	40.1	82.8	1.04	11.1	29.2	5.1
SG 125 RR	1197 d-k	35.6	85.4	1.08	12.0	27.9	4.4
DP 425 RR	1194 d-k	36.2	83.3	1.07	11.0	28.1	4.8
SS 9802	1184 e-k	37.4	83.3	1.08	11.3	29.3	4.2
AP 7115	1181 f-k	37.3	83.0	1.03	11.5	27.5	4.8
PSC 636	1168 g-k	35.4	82.3	1.07	11.1	28.1	4.3
FM 963	1161 h-k	38.2	85.2	1.03	10.7	29.1	4.2
GA 93-299	1128 i-k	38.3	84.0	1.10	10.5	31.5	4.5
HCR 9228	1104 jk	36.6	83.2	1.04	10.8	28.8	4.1
Terra 292	1084 kl	33.4	83.8	1.07	11.3	27.5	4.6
HCR 9310	934 l	35.4	83.0	1.11	11.3	30.0	4.1
Average	*1257*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 4, 1999.						
Harvested:	October 1, 1999.						
Fertilization:	88 lb N, 54 lb P_2O_5, and 108 lb K_2O/acre.						
Management:	3 gal/acre Telone II.						
	May	**June**	**July**	**Aug.**	**Sept.**		
Rainfall (in):	2.55	10.39	4.53	2.15	3.57		
Irrigation (in):			1.00	1.00			
Tested performed by Larry Thompson and Shelby Baker.							

Yield Summary for Early Maturing Cotton Varieties in Georgia, 1999*					
Entry	**Tifton**	**Plains**	**Midville**	**Athens**	**4-Location Average**
	---------- **lb/acre** ----------				
PSC 355	1421[1]	1255[6]	1191[3]	931[6]	1199
STX 9901	1358[4]	1239[11]	1200[2]	933[5]	1182
ASCI EXP 0052	1394[2]	1254[7]	1106[6]	812[21]	1141
SG 747	1315[11]	1234[13]	915[24]	998[1]	1116
SG 501 BR	1352[5]	1185[18]	957[22]	957[3]	1113
STX 9903	1306[13]	1193[15]	1043[11]	889[10]	1108

SS 9901	1323[10]	1294[1]	1031[14]	722[28]	1092
SG 125	1328[9]	1234[12]	861[28]	918[7]	1085
BXN 47	1284[17]	1265[3]	969[18]	779[24]	1074
GA 93-299	1128[33]	1093[29]	1084[8]	991[2]	1074
SS 9802	1184[29]	1054[30]	1160[4]	894[9]	1073
PSC 636	1168[31]	1262[5]	1039[13]	819[19]	1072
SG 105	1289[15]	1263[4]	996[16]	696[30]	1061
PSC 569	1238[24]	1138[22]	1050[10]	817[20]	1061
DP 458 BR	1269[20]	1048[31]	1250[1]	670[32]	1059
SG 501	1285[16]	1193[16]	885[27]	873[12]	1059
HCR 9220	1308[12]	1143[21]	982[17]	801[22]	1058
DP 428 B	1280[18]	1111[27]	957[21]	872[13]	1055
AP 7115	1181[30]	1145[20]	1042[12]	838[16]	1051
PM 1560 BG	1342[7]	1250[8]	721[34]	888[11]	1050
DP 451 BR	1254[22]	1137[23]	1117[5]	659[33]	1042
STX 9902	1246[23]	1183[19]	958[20]	777[25]	1041
PMX 0425	1262[21]	1247[10]	846[31]	797[23]	1038
SG 125 RR	1197[27]	1269[2]	854[30]	775[26]	1036
PSC 952	1275[19]	1192[17]	1088[7]	581[35]	1034
SG 125 BR	1343[6]	1126[26]	859[29]	824[18]	1026
ST 474	1207[26]	1205[14]	1052[9]	633[34]	1024
PM 1220 BR	1392[3]	1133[25]	622[35]	909[8]	1014
PM 1218 BR	1334[8]	1247[9]	564[36]	860[14]	1001
FM 963	1161[32]	951[35]	941[23]	951[4]	1001
DP 425 RR	1194[28]	1136[24]	909[25]	735[27]	994
DP 422 BR	1209[25]	1098[28]	808[32]	843[15]	990
HCR 9310	934[36]	995[34]	1023[15]	829[17]	945
HCR 9228	1104[34]	1028[33]	897[26]	693[31]	930
Terra 292	1084[35]	925[36]	966[19]	704[29]	920
HCR 711446	1295[14]	1034[32]	730[33]	481[36]	885
* Superscripts indicates ranking at that location and 4-location ranking.					

Mid-Full Season Cotton Variety Performance

Mid-Full Season Cotton Variety Performance, 1999, Irrigated
Midville, Georgia

Entry	Lint Yield[1] lb/acre	Lint %	Unif. index	HVI Fiber Data			
				Length inches	Elong. %	Strength g/tex	Mike units
DPX 8C80	1311 a	41.5	83.2	1.14	9.3	28.7	4.9
ACSI EXP 0781	1238 ab	41.6	83.5	1.12	9.9	32.7	4.2
DP 448 B	1237 ab	39.2	83.9	1.11	9.6	28.6	4.6
DP 675	1198 a-c	38.5	85.2	1.15	10.5	32.0	4.7
OA-77	1198 a-c	39.5	83.9	1.10	9.5	31.3	4.3
SG 248	1187 a-c	40.5	84.2	1.17	9.8	30.0	5.1
DP NC 35B	1171 a-c	39.3	84.2	1.14	9.8	32.4	4.6
PM 1440	1158 a-c	39.8	82.5	1.10	9.4	28.0	4.8
DP 5690	1151 a-c	39.8	83.9	1.12	9.8	31.5	4.8
ACSI IF 1000	1145 a-c	40.5	83.6	1.14	9.8	31.5	4.8
OA-66	1131 a-c	38.9	82.8	1.10	9.9	28.5	4.7
DP 458 BR	1128 a-c	39.2	82.9	1.11	10.0	29.5	5.0
FM 989	1111 a-c	40.2	83.6	1.13	9.6	32.3	4.6
DP 655 BR	1098 a-c	38.1	83.6	1.13	9.6	31.5	4.3
DP 5415 RR	1097 a-c	39.0	84.1	1.12	10.0	29.3	4.7
OA-36	1086 a-c	39.7	84.0	1.10	10.0	29.8	5.0
HS 12	1076 a-c	38.7	83.7	1.15	9.5	31.3	4.7
ACSI EXP 0222	1076 a-c	40.1	84.3	1.13	9.2	34.4	4.4
DP NC 33 B	1063 a-c	38.2	84.0	1.12	9.9	29.9	4.7
ST 6M045	1058 a-c	39.1	84.6	1.13	9.9	28.6	4.7
DP 5690 RR	1034 a-c	38.8	83.9	1.12	9.8	31.5	4.8
PSC 413	1033 a-c	38.9	84.0	1.13	10.0	29.1	4.7
GA 161	1016 a-c	39.4	85.1	1.17	9.6	30.9	4.5
SG 821	1014 a-c	39.2	84.5	1.12	10.0	28.9	4.8
AP 6101	1001 a-c	38.5	85.0	1.16	9.8	30.2	4.8
AP HS 46	989 a-c	39.7	83.6	1.13	9.8	30.1	4.7
GA 894	964 a-c	38.5	84.9	1.16	9.7	32.6	4.7
HCR 9263	923 a-c	39.2	84.4	1.14	10.5	30.6	4.9
HCR 9240	891 a-c	39.6	83.1	1.15	9.5	28.4	4.6
DPX 9765	888 a-c	39.3	84.3	1.12	9.7	28.0	4.9
OA-44	877 a-c	37.3	85.7	1.11	9.9	31.8	5.0
FM 975	852 a-c	39.6	83.1	1.15	8.7	30.2	4.4
PM 1560 BR	800 a-c	39.1	84.1	1.12	9.5	29.3	4.3
HCR 9257	780 bc	39.3	83.9	1.13	9.8	30.0	4.6

FM 832	740 bc	39.3	84.8	1.17	9.8	33.8	4.5
OA-50	689 c	36.1	85.0	1.17	9.9	30.0	4.4
Average	*1039*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	June 2, 1999.						
Harvested:	November 11, 1999.						
Fertilization:	75 lb N, 85 lb P_2O_5, and 75 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**		
Rainfall (in):	2.86	1.77	2.81	4.87	3.25		
Irrigation (in):		1.50	3.00	3.75	4.50		
Tested performed by Larry Thompson, Shelby Baker, Charles Perry, and Bob McNeill, IV.							

Mid-Full Season Cotton Variety Performance, 1999, Irrigated Plains, Georgia

Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
ACSI EXP 0222	1287 a	41.8	83.2	1.13	8.7	32.9	4.7
DP 448 B	1235 ab	38.4	82.7	1.09	9.2	27.8	4.7
DPX 8C80	1229 ab	40.1	82.7	1.13	9.3	30.0	4.9
OA-36	1218 a-c	38.8	82.7	1.09	9.9	29.1	4.8
GA 894	1196 a-d	39.2	82.8	1.11	9.5	31.1	4.9
PM 1560 BR	1191 a-d	39.9	83.2	1.11	9.4	28.8	4.2
DPX 9765	1164 a-e	38.1	82.9	1.11	9.6	28.0	4.9
OA-44	1156 a-e	38.3	83.8	1.12	9.9	31.5	5.3
DPNC 33 B	1134 a-e	37.7	83.0	1.11	9.6	29.0	4.6
HCR 9240	1130 a-e	39.1	83.6	1.13	9.4	28.5	4.4
HCR 9257	1129 a-e	38.2	82.9	1.08	9.4	29.5	4.5
DPNC 35 B	1120 a-e	37.1	82.0	1.09	9.2	30.6	4.5
DP 675	1115 a-e	37.4	83.6	1.10	10.0	31.5	4.6
PM 1440	1112 a-e	37.7	82.2	1.09	9.6	28.2	5.0
ACSI IF 1000	1109 a-e	40.5	83.4	1.12	9.8	33.3	4.9
SG 821	1104 a-e	38.5	83.0	1.10	10.0	29.2	5.0
ST 6M045	1100 a-e	39.3	83.0	1.08	10.0	29.3	5.2
HS-12	1076 a-e	37.5	82.3	1.10	9.6	30.0	5.0
FM 989	1074 a-e	39.1	83.2	1.13	9.5	33.3	4.7
OA-66	1072 a-e	37.1	82.6	1.11	9.5	28.2	4.8

AP HS 46	1071 a-e	38.0	82.6	1.11	9.5	31.9	4.8
DP 458 BR	1065 a-e	37.9	82.7	1.08	9.5	28.3	4.8
DP 5415 RR	1064 a-e	39.4	82.6	1.09	9.8	29.8	5.2
AP 6101	1062 a-e	37.6	83.6	1.14	9.9	30.9	4.8
SG 248	1059 a-e	38.5	83.8	1.14	9.4	29.9	4.8
DP 655 BR	1058 a-e	37.5	81.7	1.11	9.6	31.5	4.4
GA 161	1041 b-e	38.6	82.3	1.11	9.7	31.4	4.9
HCR 9263	1033 b-e	37.6	82.7	1.10	10.0	30.7	5.2
DP 5690 RR	1030 b-e	37.3	82.1	1.08	9.6	32.3	4.9
DP 5690	1021 b-e	38.5	82.7	1.09	9.7	32.8	4.8
FM 832	1003 b-e	39.0	84.7	1.17	9.0	32.1	4.4
ACSI EXP 0781	1002 b-e	39.3	82.9	1.11	9.5	31.2	4.5
PSC 413	993 c-e	38.0	83.5	1.11	9.9	28.4	4.7
FM 975	974 de	39.8	82.9	1.11	8.8	31.1	4.5
OA-77	968 de	36.5	82.0	1.10	9.5	29.5	4.6
OA-50	943 e	35.8	83.2	1.14	9.6	28.0	4.4
Average	*1093*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 3, 1999.						
Harvested:	October 19, 1999.						
Fertilization:	72 lb N, 72 lb P_2O_5, and 36 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**	**Sept.**	
Rainfall (in):	3.24	2.83	3.48	4.41	1.95	.93	
Irrigation (in):		1.40	1.50	1.70	3.00		
Tested performed by Larry Thompson, Shelby Baker, Stan Jones, and Ronnie Pines.							

Mid-Full Season Cotton Variety Performance, 1999, Irrigated Tifton, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
ACSI EXP 0222	1455 a	39.8	83.9	1.13	9.3	31.8	4.6
FM 989	1433 ab	42.3	84.5	1.12	9.5	30.8	4.5
DPX 8C80	1425 a-c	40.8	83.9	1.17	9.5	31.5	4.6
PSC/GA 894	1356 a-d	37.6	83.9	1.09	10.0	32.1	4.5
OA-36	1333 a-e	37.7	84.8	1.07	10.9	28.9	5.3
DP33 B	1299 b-f	38.8	83.5	1.08	10.5	28.5	4.8
HCR-9257	1286 b-g	38.9	83.8	1.06	10.9	28.1	4.8
HCR-9240	1282 c-g	40.0	85.1	1.15	11.1	30.2	4.4
HCR-9263	1260 d-h	37.7	84.9	1.10	11.5	30.9	5.2
DPX-9765	1249 d-i	37.2	83.8	1.09	10.6	28.3	4.7
PSC/GA 161	1243 d-i	36.3	85.1	1.15	10.7	31.2	4.5
ST6MO45	1239 d-j	39.0	84.0	1.06	11.0	30.6	4.8
AP 6101	1236 d-j	37.6	84.5	1.12	11.0	29.8	5.0
DP 448 B	1231 d-j	38.2	83.3	1.08	10.3	28.4	4.8
OA-66	1229 d-j	36.3	84.0	1.09	10.7	28.3	4.6
FM 832	1222 d-j	40.5	84.8	1.17	9.7	34.2	4.0
DP 458 BR	1222 d-j	38.4	84.4	1.08	10.6	30.1	4.9
HS 46	1215 d-k	37.6	83.6	1.07	10.0	30.8	4.3
DP 35 B	1214 d-k	36.0	83.6	1.06	10.4	30.2	4.4
DP 5415 RR	1212 d-k	38.4	84.3	1.08	11.3	29.6	4.8
PM 1440	1200 e-l	36.2	84.1	1.09	10.6	29.4	4.6
SG 821	1200 e-l	37.0	84.9	1.09	12.1	29.1	4.8
ACSI IF 1000	1199 e-l	38.5	85.2	1.12	9.9	31.4	4.9
FM 975	1188 e-l	37.9	83.7	1.12	9.9	29.7	4.7
DP 5690 RR	1182 f-l	35.8	83.5	1.05	10.3	30.1	4.5
DP 5690	1181 f-l	37.8	84.3	1.05	10.4	29.0	4.7
SG 248	1171 f-l	37.9	84.5	1.13	9.9	31.2	4.9
OA-50	1137 g-l	35.3	83.5	1.15	10.5	30.9	4.5
HS 12	1137 g-l	37.2	84.4	1.12	10.4	30.5	4.7
DP 675	1137 g-l	36.7	85.8	1.10	11.1	31.6	4.5
OA-44	1120 h-m	36.3	85.1	1.09	10.9	29.8	5.2
DP 655 BR	1109 i-m	35.4	82.2	1.06	10.0	30.5	4.4
OA-77	1089 j-m	36.9	83.5	1.06	10.1	28.7	4.3
ACSI EXP 0781	1065 k-m	34.8	84.5	1.10	10.3	31.7	4.2

PM 1560 BR	1059 lm	37.5	84.7	1.12	10.7	30.4	4.0
PSC 413	971 m	36.0	85.5	1.10	11.3	30.4	4.5
Average	*1216*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 4, 1999.						
Harvested:	October 1, 1999.						
Fertilization:	88 lb N, 54 lb P_2O_5, and 108 lb K_2O/acre.						
Management:	3 gal/acre Telone II						
	May	**June**	**July**	**Aug.**	**Sept.**		
Rainfall (in):	2.55	10.39	4.53	2.15	3.57		
Irrigation (in):			1.00	1.00			
Tested performed by Larry Thompson and Shelby Baker.							

Yield Summary for Mid-Full Maturing Cotton Varieties in Georgia, 1999*

Entry	**Tifton**	**Plains**	**Midville**	**3-Location Average**
	---------- **lb/acre** ----------			
DPX 8C80	1425[3]	1229[3]	1311[1]	1322
ASCI EXP 0222	1455[1]	1287[1]	1076[18]	1273
DP 448 B	1231[14]	1235[2]	1237[3]	1234
OA-36	1333[5]	1218[4]	1086[16]	1212
FM 989	1433[2]	1074[19]	1111[13]	1206
GA 894	1356[4]	1196[5]	964[27]	1172
DP NuCot 35B	1214[19]	1120[12]	1171[7]	1169
DP NuCot 33B	1299[6]	1134[9]	1063[19]	1165
PM 1440	1200[21-22]	1112[14]	1158[8]	1157
ASCI IF 1000	1199[23]	1109[15]	1145[10]	1151
DP 675	1137[28-30]	1115[13]	1198[4-5]	1150
OA-66	1229[15]	1072[20]	1131[11]	1144
SG 248	1171[27]	1059[25]	1187[6]	1139
DP 458 BR	1222[16-17]	1065[22]	1128[12]	1138
ST 6MO45	1239[12]	1100[17]	1058[20]	1132
DP 5415 RR	1212[20]	1064[23]	1097[15]	1124
DP 5690	1181[26]	1021[30]	1151[9]	1118
SG 821	1200[21-22]	1104[16]	1014[24]	1106
ASCI EXP 0781	1065[34]	1002[32]	1238[22]	1102
HCR 9240	1282[8]	1130[10]	891[29]	1101
DPX 9765	1249[10]	1164[7]	888[30]	1100

GA 161	1243[11]	1041[27]	1016[23]	1100
AP 6101	1236[13]	1062[24]	1001[25]	1100
HS 12	1137[28-30]	1076[18]	1076[17]	1096
AP HS-46	1215[18]	1071[21]	989[26]	1091
DP 655 BR	1109[32]	1058[26]	1098[14]	1088
OA-77	1089[33]	968[35]	1198[4-5]	1085
DP 5690 RR	1182[25]	1030[29]	1034[21]	1082
HCR 9263	1260[9]	1033[28]	923[28]	1072
HCR 9257	1287[7]	1129[11]	780[34]	1065
OA-44	1120[31]	1156[8]	877[31]	1051
PM 1560 BR	1059[35]	1191[6]	800[33]	1016
FM 975	1188[24]	974[34]	852[32]	1005
PSC 413	971[36]	993[33]	1033[22]	999
FM 832	1222[16-17]	1003[31]	740[35]	988
OA-50	1137[28-30]	943[36]	689[36]	923
* Superscripts indicates ranking at that location and 4-location ranking.				

Dryland Cotton Variety Performance

Dryland Cotton Variety Performance, 1999 Midville, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
PSC 952	598 a	41.6	81.9	1.02	10.0	28.0	4.7
SG 125	586 a	38.7	82.9	1.05	9.9	26.7	4.4
PSC 355	584 a	41.5	81.4	1.03	10.0	29.3	4.8
SG 501	581 a	39.3	83.2	1.04	10.0	33.4	4.4
PM 1218 BR	554 ab	41.7	82.1	1.00	9.3	27.2	4.3
DP 425 RR	520 ab	38.8	80.6	1.00	9.1	25.7	4.5
DP 675	516 ab	39.5	82.4	1.03	10.0	33.6	4.8
DP 35 B	504 ab	38.8	81.7	1.02	9.3	31.1	4.6
SG 105	483 ab	39.3	82.2	1.04	10.0	28.5	4.3
DP 458 BR	477 ab	40.2	80.7	1.02	10.0	28.9	5.1
BXN 47	470 ab	40.3	80.1	1.01	8.9	27.1	4.3
DP 33 B	455 ab	38.9	81.1	1.04	9.7	27.3	4.7
PSC GA 161	439 ab	36.4	82.3	1.07	9.8	28.6	4.4
FM 989	434 ab	41.1	81.3	1.09	8.9	30.8	3.8
HS-12	434 ab	37.7	80.1	1.04	9.0	28.5	4.0
DP 5690	423 ab	38.6	81.7	1.02	9.4	31.2	4.7
DP 5415 RR	422 ab	39.8	81.0	1.07	9.7	30.0	4.7
FM 963	420 ab	37.4	81.9	1.05	9.5	28.3	4.1
SG 747	410 ab	39.2	82.4	1.05	9.9	29.3	4.5
PM 1560 BG	406 ab	40.2	82.3	1.03	9.4	28.6	4.4
AP HS 46	389 ab	39.6	81.3	1.04	9.4	30.8	4.5
DP 90	373 ab	39.8	81.7	1.04	9.9	33.1	4.9
ST474	358 ab	42.0	81.4	1.01	9.0	26.8	4.7
FM 832	288 b	39.3	81.9	1.10	8.8	29.3	4.3
Average	*464*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	June 2, 1999.						
Harvested:	November 11, 1999.						
Fertilization:	75 lb N, 85 lb P_2O_5, and 75 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**		
Rainfall (in):	2.86	1.77	2.81	4.87	3.25		
Tested performed by Larry Thompson, Shelby Baker, Charles Perry, and Bob McNeill, IV.							

Dryland Cotton Variety Performance, 1999 Plains, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
SG 747	627 a	40.2	83.7	1.12	9.7	27.7	5.2
SG 125	597 ab	39.0	83.4	1.14	9.4	27.6	4.9
SG 501	578 a-c	40.8	84.3	1.13	10.0	32.5	5.0
SG 105	535 a-d	39.5	82.7	1.10	9.2	28.7	5.1
DP 90	519 a-e	39.2	82.1	1.10	9.6	33.2	5.1
DP 35 B	512 a-e	38.5	82.2	1.11	9.4	32.0	4.9
DP 675	505 a-e	38.3	82.8	1.11	10.0	34.8	4.9
BXN 47	500 a-e	39.3	82.4	1.08	9.2	28.1	5.0
DP 5690	498 a-e	39.1	81.9	1.09	9.5	32.0	5.1
PM 1560 BG	492 a-e	39.9	82.9	1.10	9.8	30.0	5.3
PSC 952	474 b-e	39.3	82.2	1.06	9.9	30.0	5.2
ST474	462 b-e	40.3	82.2	1.09	9.4	28.4	5.0
FM 832	462 b-e	37.6	82.9	1.16	9.2	32.7	4.4
DP 5415 RR	457 c-e	38.8	82.1	1.11	9.8	31.2	4.9
PSC GA 161	452 c-e	37.3	82.7	1.15	9.6	31.3	4.6
AP HS 46	446 c-e	38.0	81.3	1.09	9.5	32.1	4.5
PSC 355	441 c-e	38.7	82.5	1.08	10.0	30.5	4.9
HS-12	441 c-e	37.0	81.9	1.13	9.3	30.6	5.0
FM 963	436 de	38.5	82.6	1.10	9.5	29.7	4.8
PM 1218 BR	434 de	41.1	81.9	1.05	9.2	28.7	5.1
FM 989	409 de	39.0	81.6	1.10	9.2	32.3	5.0
DP 33 B	409 de	37.6	81.7	1.10	9.5	28.8	5.0
DP 425 RR	407 de	36.2	82.3	1.09	9.2	27.6	5.0
DP 458 BR	382 e	37.6	81.2	1.10	9.2	29.5	4.8
Average	*478*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 3, 1999.						
Harvested:	October 19, 1999.						
Fertilization:	72 lb N, 72 lb P_2O_5, and 36 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**	**Sept.**	
Rainfall (in):	3.24	2.83	3.48	4.41	1.95	.93	
Tested performed by Larry Thompson, Shelby Baker, Stan Jones, and Ronnie Pines.							

Dryland Cotton Variety Performance, 1999 Tifton, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
PSC 355	1237 a	40.0	84.7	1.07	11.7	29.6	4.9
SG 747	1130 ab	40.1	84.6	1.08	12.0	28.2	5.0
PM 1218 BR	1110 a-c	40.6	83.5	1.06	10.8	26.0	4.5
DP 35 B	1104 a-d	37.5	83.3	1.06	10.0	29.4	4.7
FM 832	1093 a-d	39.0	84.6	1.14	10.0	33.0	4.0
SG 501	1089 a-d	39.4	86.2	1.09	11.5	29.5	4.7
FM 989	1089 a-d	38.8	84.4	1.09	10.3	30.4	4.1
PSC GA 161	1081 a-d	37.6	84.5	1.10	10.8	30.8	4.3
DP 675	1081 a-d	38.2	84.5	1.07	11.2	32.3	4.6
SG 105	1077 a-d	36.2	85.7	1.08	11.2	27.6	4.8
SG 125	1071 a-d	37.6	84.9	1.11	11.3	28.3	4.6
PM 1560 BG	1062 b-d	39.6	83.4	1.06	11.5	28.0	4.5
BXN 47	1041 b-d	38.6	84.1	1.07	11.0	28.0	4.7
HS 12	1018 b-d	38.4	82.8	1.04	9.9	29.1	5.0
HS 46	987 b-d	36.1	82.8	1.04	10.5	30.2	4.5
DP 90	984 b-d	38.0	83.0	1.04	10.6	27.9	4.7
DP 5690	981 b-d	38.0	84.1	1.06	10.5	29.5	5.0
DP 425 RR	980 b-d	36.7	81.9	1.02	11.6	26.6	5.0
FM 963	962 b-d	37.4	83.9	1.02	10.6	27.9	4.1
PSC 952	959 b-d	37.9	84.5	1.08	11.1	28.0	4.4
DP 458 BR	958 b-d	37.3	82.2	1.03	10.9	27.1	5.1
DP 5415 RR	946 cd	35.8	83.8	1.07	10.9	28.1	4.7
ST 474	944 cd	38.0	84.1	1.05	10.6	27.7	4.8
DP 33 B	931 d	37.2	83.0	1.05	10.6	28.9	4.5
Average	*1038*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 4, 1999.						
Harvested:	October 1, 1999.						
Fertilization:	88 lb N, 54 lb P_2O_5, and 108 lb K_2O/acre.						
Management:	3 gal/acre Telone II.						
	May	**June**	**July**	**Aug.**	**Sept.**		
Rainfall (in):	2.55	10.39	4.53	2.15	3.57		
Tested performed by Larry Thompson and Shelby Baker.							

Three-Year Average Performance of Cotton Varieties

Three-Year Average Performance of Cotton Varieties, 1997-1999 Athens, Georgia								
Entry	**Lint Yield lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**				
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**	
Early Maturing								
PM 1220 BR	822	41.7	82.9	1.06	10.1	29.8	5.2	
SG 501	748	42.1	83.0	1.09	10.3	32.2	4.9	
SG 125	743	40.9	82.8	1.08	10.7	28.7	5.0	
ST BXN 47	731	42.2	82.9	1.08	10.0	29.6	5.1	
ST 474	658	42.8	82.7	1.08	10.1	29.1	5.2	
Average	*740*							

Three-Year Average Performance of Cotton Varieties, 1997-1999 Midville, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
ST 474	1146	42.6	83.6	1.10	9.7	28.9	4.9
ST BXN 47	1136	41.9	84.3	1.12	9.6	29.1	4.7
SG 501	1071	42.6	83.9	1.11	10.1	32.6	4.7
SG 125	1021	41.0	84.8	1.14	10.4	29.1	4.7
PM 1220 BR	890	40.5	84.9	1.09	9.9	29.2	4.9
Average	*1053*						
Late Maturing							
IF 1000	1184	41.6	83.9	1.14	9.7	31.6	4.8
HS-12	1174	39.0	84.2	1.15	9.9	32.2	4.7
SG 248	1130	40.8	84.6	1.17	10.0	32.3	4.9
Dp NuCot 35B	1116	38.4	83.5	1.14	9.7	32.9	4.4
FM 989	1095	40.5	84.3	1.13	9.5	32.0	4.5
HS-46	1069	39.8	83.6	1.13	9.9	31.0	4.4
DP 5415 RR	1067	40.2	84.1	1.14	10.8	30.1	4.8
SG 821	1054	39.8	84.9	1.11	10.7	30.3	4.7
DP 5690 RR	1036	39.0	83.3	1.10	9.6	32.2	4.7
DP NuCot 33B	987	38.9	83.7	1.11	10.1	29.9	4.5
FM 975	970	40.5	83.8	1.16	9.1	32.1	4.4
Average	*1080*						

Three-Year Average Performance of Cotton Varieties, 1997-1999 Plains, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
SG 501	1165	40.8	83.8	1.14	10.4	30.0	4.5
ST 474	1151	41.9	83.7	1.11	9.9	27.5	4.7
PM 1220 BR	1125	41.5	84.0	1.11	10.1	28.8	4.7
ST BXN 47	1112	41.4	83.7	1.11	10.0	28.0	4.5
SG 125	1110	39.6	84.3	1.15	10.5	27.0	4.4
Average	*1133*						
Late Maturing							
Dp NuCot 35B	1140	37.7	83.7	1.13	9.8	30.6	4.3
FM 989	1094	39.5	84.4	1.17	9.6	32.8	4.2
DP NuCot 33B	1089	37.8	83.6	1.14	10.4	30.3	4.2
IF 1000	1068	40.3	84.4	1.16	10.2	32.9	4.4
SG 821	1062	38.5	84.8	1.14	10.8	29.6	4.3
HS-12	1031	37.2	83.8	1.15	10.0	31.0	4.6
DP 5690 RR	1026	37.8	83.5	1.12	10.0	31.9	4.4
HS-46	1014	38.6	83.4	1.14	10.1	31.6	4.3
SG 248	1007	38.3	85.0	1.19	9.9	30.8	4.4
FM 975	984	40.1	84.3	1.17	9.0	30.7	4.1
DP 5415 RR	982	38.8	84.0	1.13	10.7	29.7	4.6
Average	*1045*						

Three-Year Average Performance of Cotton Varieties, 1997-1999 Tifton, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
PM 1220 BR	1336	40.1	84.1	1.10	10.6	29.1	5.0
SG 501	1299	40.4	84.4	1.12	10.8	32.0	4.8
SG 125	1290	39.1	85.1	1.15	11.5	28.8	4.7
ST BXN 47	1244	40.1	84.4	1.12	10.2	29.5	5.0
ST 474	1237	40.8	83.8	1.09	10.5	28.7	5.1
Average	*1281*						
Late Maturing							
FM 989	1349	40.7	84.6	1.15	9.5	31.5	4.5
DP NuCot 33B	1304	38.7	84.0	1.13	10.5	29.6	4.7
Dp NuCot 35B	1285	37.1	83.9	1.13	10.0	31.9	4.6
SG 821	1254	38.5	84.7	1.14	11.8	29.6	4.8
SG 248	1247	38.9	84.8	1.18	9.9	32.3	4.9
HS-12	1242	37.9	84.0	1.16	9.7	31.8	4.6
IF 1000	1235	39.9	84.7	1.17	9.8	32.9	4.7
HS-46	1233	39.0	84.1	1.14	10.0	32.2	4.5
DP 5415 RR	1227	39.2	84.1	1.12	11.1	30.3	4.9
DP 5690 RR	1196	37.2	83.5	1.11	10.0	31.2	4.7
FM 975	1182	40.1	84.5	1.18	9.4	30.5	4.7
Average	*1250*						

Two-Year Average Performance of Cotton Varieties

Two-Year Average Performance of Cotton Varieties, 1998-1999 Athens, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
SG 747	779	42.3	82.3	1.08	10.0	26.4	5.4
PSC 355	773	40.9	82.7	1.06	10.0	29.8	5.3
FM 963	730	41.2	81.3	1.04	9.5	29.7	4.7
PM 1560 BG	701	42.9	82.3	1.05	10.0	28.8	5.3
PM 1218 BR	695	43.2	82.5	1.04	9.8	28.4	5.4
DP 428B	682	39.3	82.6	1.08	9.6	28.7	5.0
AP 7115	654	41.1	81.5	1.05	9.8	28.3	4.8
SG 105	618	40.6	83.4	1.06	9.8	28.4	5.3
DP 425 RR	604	39.0	82.0	1.06	9.7	27.0	5.2
Terra 292	573	37.5	82.6	1.07	9.8	29.1	5.0
Average	*681*						

Two-Year Average Performance of Cotton Varieties, 1998-1999 Midville, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
PSC 355	1032	40.5	85.1	1.11	10.5	31.2	5.0
AP 7115	985	40.5	83.5	1.10	9.4	27.9	4.5
SG 105	910	40.2	85.5	1.14	10.0	29.9	4.9
SG 747	875	41.3	84.9	1.11	9.8	27.7	5.0
FM 963	868	40.6	83.9	1.08	9.4	31.5	4.5
DP 428B	852	37.5	84.2	1.15	9.2	27.3	4.5
DP 425 RR	833	38.1	84.5	1.12	9.5	27.9	4.9
Terra 292	819	35.8	84.8	1.15	9.4	27.7	4.7
PM 1560 BG	779	39.7	84.4	1.11	10.0	29.6	4.7
PM 1218 BR	718	41.4	83.7	1.08	9.7	28.3	5.1
Average	*867*						
Late Maturing							
PM 1440	1050	40.1	83.0	1.10	9.5	28.6	4.8
DP 458 RR	1027	39.8	83.7	1.12	10.0	28.5	4.9
DP 655 BR	1004	38.7	83.3	1.10	9.3	31.4	4.5
AP 6101	984	38.9	85.1	1.16	9.9	30.6	4.9
PSC/GA 894	899	39.0	84.9	1.17	9.7	32.6	4.7
FM 832	825	39.4	85.7	1.19	9.7	34.2	4.6
Average	*965*						

Two-Year Average Performance of Cotton Varieties, 1998-1999 Plains, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
SG 105	1245	38.8	83.9	1.11	9.7	28.3	4.7
PM 1218 BR	1242	41.8	82.7	1.06	9.3	26.5	5.1
PSC 355	1208	40.2	83.9	1.12	10.0	29.8	4.8
SG 747	1206	41.0	84.7	1.12	9.9	26.3	4.9
PM 1560 BG	1200	40.6	84.0	1.10	10.0	28.3	4.6
DP 428B	1152	38.8	83.2	1.12	9.4	25.0	4.7
AP 7115	1137	39.6	82.9	1.11	9.7	26.7	4.3
DP 425 RR	1117	38.1	83.7	1.13	9.7	26.1	4.6
FM 963	1026	38.9	83.2	1.09	9.6	29.6	4.1
Terra 292	962	36.0	83.4	1.14	9.7	25.5	4.4
Average	*1150*						
Late Maturing							
PSC/GA 894	1129	39.0	83.6	1.14	9.6	30.2	4.5
DP 655 BR	1109	38.6	82.9	1.13	9.6	30.5	4.2
DP 458 RR	1093	38.4	83.7	1.10	9.8	27.7	4.7
PM 1440	1080	38.9	83.8	1.11	9.7	27.8	4.7
AP 6101	1038	38.1	84.0	1.16	10.0	30.8	4.6
FM 832	1001	39.1	85.4	1.18	9.1	31.0	4.3
Average	*1075*						

Two-Year Average Performance of Cotton Varieties, 1998-1999 Tifton, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
Early Maturing							
SG 105	1364	38.9	84.9	1.13	10.9	29.3	5.0
SG 747	1325	39.4	84.4	1.13	11.4	28.6	4.8
PSC 355	1310	39.0	85.5	1.15	11.3	31.3	4.9
PM 1560 BG	1283	39.3	84.5	1.14	10.6	30.3	4.7
DP 428B	1275	36.7	83.8	1.14	11.1	27.8	4.7
DP 425 RR	1203	36.8	83.6	1.12	10.6	28.6	5.0
AP 7115	1201	38.5	83.5	1.11	10.9	29.0	4.7
FM 963	1184	38.7	85.5	1.11	10.4	29.4	4.4
Terra 292	1060	33.8	84.6	1.14	11.0	28.8	4.6
Average	*1245*						
Late Maturing							
PSC/GA 894	1272	37.5	84.6	1.16	9.9	32.8	4.5
AP 6101	1209	37.4	85.3	1.17	10.6	30.8	4.9
DP 458 RR	1197	38.5	84.6	1.13	10.7	30.7	4.9
FM 832	1153	38.6	86.3	1.22	9.7	33.5	4.2
DP 655 BR	1116	36.3	83.2	1.13	9.8	31.3	4.3
Average	*1189*						

Cotton Strains Performance

Cotton Strains Performance, 1999, Irrigated
Midville, Georgia

Entry	Lint Yield[1] lb/acre	Lint %	Unif. index	HVI Fiber Data			
				Length inches	Elong. %	Strength g/tex	Mike units
OA-63	1431 a	39.6	83.8	1.12	10.0	33.3	4.6
HCR 9263-3001-411	1358 ab	38.3	85.0	1.16	10.5	33.1	4.8
HCR 9220-3027	1352 ab	39.0	83.3	1.12	10.5	32.0	4.8
FM 989	1334 ab	40.7	83.3	1.12	9.9	34.2	4.5
GA 95-155	1265 a-c	38.2	84.0	1.12	10.0	33.7	4.9
DPX 891 M	1261 a-c	39.1	84.0	1.13	10.0	32.5	4.6
PMX 9307-2609	1258 a-c	38.6	84.2	1.12	10.0	31.7	4.9
PD 95079	1235 a-d	43.0	85.0	1.12	10.5	33.7	4.7
HCR 9204-3044-401	1232 a-d	37.5	84.9	1.12	10.5	32.7	4.9
HCR 9305-4012-507	1211 a-d	37.8	84.2	1.10	10.0	32.2	4.5
HCR 7104	1187 a-d	36.8	85.5	1.17	10.5	33.9	4.8
ST 474	1156 a-d	41.4	84.3	1.11	10.0	30.4	4.7
PD 95034	1147 a-d	37.6	84.6	1.12	10.0	33.5	4.6
PMX 1440 RR	1138 a-d	40.7	83.3	1.07	10.0	32.4	4.7
94-WE-375	1114 b-e	36.7	84.8	1.19	9.9	30.6	4.0
95-3-17-46-RR	1052 b-e	40.9	85.0	1.10	10.0	31.4	4.8
94J-5	983 c-e	38.2	85.0	1.16	11.0	33.9	4.3
94WD-17	929 de	36.1	84.6	1.11	10.0	32.2	4.8
94L-25	821 e	37.4	84.8	1.20	9.8	35.0	4.1
T8-27	503 f	39.2	84.4	1.13	10.0	31.1	4.2
Average	*1148*						

[1] Yields followed by same letter do not differ significantly at the 5% level of probability.

Planted:	June 2, 1999.						
Harvested:	November 11, 1999.						
Fertilization:	75 lb N, 85 lb P_2O_5, and 75 lb K_2O/acre.						
	June	**July**	**Aug.**				
Rainfall (in):	2.81	4.87	3.25				
Irrigation (in):	3.00	3.75	4.50				

Tested performed by Larry Thompson, Shelby Baker, Charles Perry, and Bob McNeill, IV.

Cotton Strains Performance, 1999, Irrigated Plains, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
ST 474	1285 a	42.4	82.3	1.10	9.5	28.6	5.1
95-3-17-46-RR	1281 a	40.0	84.0	1.11	9.3	29.3	5.0
OA-63	1229 ab	38.1	83.0	1.12	9.4	29.8	4.6
PMX9307-2609	1227 ab	38.0	84.1	1.11	9.9	29.6	5.1
94J-5	1218 ab	37.2	83.2	1.12	9.4	29.2	4.9
DPX 891M	1216 ab	38.8	81.7	1.08	9.6	30.4	4.8
HCR 9305-4012-507	1204 ab	36.5	81.8	1.07	9.4	30.7	4.7
PD 95079	1194 ab	41.4	83.2	1.12	9.3	29.1	4.7
FM 989	1178 ab	37.6	83.7	1.12	9.4	32.8	4.3
HCR 9263-3001-411	1167 ab	36.5	83.7	1.14	9.9	31.1	4.6
PMX 1440 RR	1163 ab	38.7	82.7	1.10	9.7	29.2	4.8
HCR 9204-3044-401	1155 ab	36.7	83.7	1.12	9.5	29.0	4.7
HCR 9220-3027	1128 ab	36.7	82.5	1.13	9.4	29.0	5.0
94 WD-17	1090 ab	36.6	82.0	1.07	9.4	28.9	5.0
HCR 7104	1088 ab	36.3	84.0	1.14	9.9	31.5	4.7
94 WE-375	1065 ab	36.3	83.2	1.16	9.2	28.5	4.3
PD 95034	1049 ab	36.1	83.5	1.11	9.3	30.4	4.4
T8-27	1037 ab	38.7	83.6	1.12	9.0	28.3	4.2
GA 95-155	1018 ab	36.9	81.9	1.10	9.6	32.2	4.7
94 L-25	998 b	37.0	83.1	1.18	8.6	29.8	4.2
Average	*1150*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 3, 1999.						
Harvested:	October 19, 1999.						
Fertilization:	72 lb N, 72 lb P_2O_5, and 36 lb K_2O/acre.						
	April	**May**	**June**	**July**	**Aug.**	**Sept.**	
Rainfall (in):	3.24	2.83	3.48	4.41	1.95	.93	
Irrigation (in):		1.40	1.50	1.70	3.00		
Tested performed by Larry Thompson, Shelby Baker, Stan Jones, and Ronnie Pines.							

Cotton Strains Performance, 1999, Irrigated Tifton, Georgia							
Entry	**Lint Yield[1] lb/acre**	**Lint %**	**Unif. index**	**HVI Fiber Data**			
				Length inches	**Elong. %**	**Strength g/tex**	**Mike units**
PMX9307-2609	1450 a	38.5	84.5	1.10	10.0	33.2	4.9
FM 989	1437 a	36.9	84.7	1.11	10.0	31.6	4.4
HCR 9220-3027	1291 ab	35.6	83.6	1.10	10.9	29.3	5.1
ST 474	1284 a-c	39.8	84.7	1.08	11.0	29.1	5.3
HCR 9263-3001-411	1271 a-c	36.4	84.2	1.12	10.6	31.7	5.2
95-3-17-46-RR	1235 b-d	38.5	85.6	1.09	10.4	30.0	5.1
PMX 1440 RR	1230 b-d	36.7	83.5	1.06	10.4	29.8	4.8
94J-5	1204 b-d	36.4	84.8	1.11	11.0	29.9	4.9
OA-63	1190 b-d	37.5	84.6	1.08	10.7	29.7	4.7
95-155	1186 b-d	37.0	85.0	1.10	10.2	30.9	4.8
DPX 891M	1179 b-d	36.7	84.0	1.09	10.6	30.3	5.0
PD 95034	1163 b-d	36.0	85.4	1.09	10.0	30.2	4.6
T8-27	1152 b-d	37.3	84.5	1.10	10.7	28.9	4.1
HCR 7104	1144 b-d	35.0	84.5	1.07	10.8	30.3	4.8
PD 95079	1126 b-d	36.7	84.9	1.08	10.6	30.3	4.6
HCR 9305-4012-507	1114 b-d	36.0	84.0	1.08	10.3	30.6	4.6
94 L-25	1113 b-d	37.3	83.4	1.18	9.7	32.5	4.3
HCR 9204-3044-401	1103 b-d	35.4	85.1	1.09	10.8	31.6	4.9
94 WD-17	1094 cd	34.7	84.2	1.03	10.9	27.2	5.1
94 WE-375	1054 d	33.8	83.1	1.14	10.3	30.5	4.2
Average	*1201*						
[1] Yields followed by same letter do not differ significantly at the 5% level of probability.							
Planted:	May 4, 1999.						
Harvested:	October 1, 1999.						
Fertilization:	88 lb N, 54 lb P_2O_5, and 108 lb K_2O/acre.						
Management:	3 gal/acre Telone II.						
	May	**June**	**July**	**Aug.**	**Sept.**		
Rainfall (in):	2.55	10.39	4.53	2.15	3.57		
Irrigation (in):			1.00	1.00			
Tested performed by Larry Thompson and Shelby Baker.							

TOBACCO

Tifton, Georgia

Official Flue-Cured Tobacco Variety Test -Yield, Value, Price Indices, and Quality; Agronomic and Chemical Characteristics of Released Varieties, 1999
Tifton, Georgia

Variety	Per-cent Stand TSWV	Yield lb/A	Value $/A	Price Index[1] $/CWT	Grade Index[2]	Number Leaves/ Plant	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio (RS/ TA)
NC 95	93	2632	4376	166	53	19	32	75	3.78	14.0	3.70
Speight 217*	90	2510	4383	175	66	20	32	75	4.29	14.6	3.35
K 326	75	2474	4296	173	63	21	33	78	3.31	13.6	4.10
RG 17	83	2455	4237	173	65	20	30	75	2.54	16.7	6.57
RG H61	91	2422	4200	174	63	18	31	68	3.22	15.2	4.72
NC 100	91	2374	4146	175	68	19	31	77	2.59	16.9	6.23
K 399	88	2365	4062	172	60	18	31	72	2.61	16.3	6.24
Speight 168	88	2365	4007	172	62	18	31	72	3.03	14.5	4.79
K 394	86	2341	3986	170	59	18	29	77	2.75	17.4	6.32
Speight 215*	93	2307	3930	170	56	18	33	79	4.29	12.4	2.89
RG 8H25*	80	2193	3762	171	60	19	32	72	3.73	9.4	2.52
K 358	78	2178	3788	174	65	18	31	79	3.74	11.0	2.94
RG H51	68	2178	3775	173	65	18	31	75	3.62	11.6	3.20
K 149	85	2169	3761	173	69	20	31	76	3.59	13.3	3.70
RG H12	91	2164	3796	175	72	18	31	70	3.36	10.1	3.00
NC 2326	98	2159	3462	161	41	17	30	66	3.25	16.0	4.92
PV H09	86	2135	3717	173	75	18	32	65	3.70	13.8	3.73
CU 561	70	2131	3590	168	75	20	35	65	3.19	11.0	3.44
NC 97	71	2121	3704	175	73	20	33	79	2.98	15.7	5.27
Speight 216*	85	2059	3524	171	58	18	34	79	2.99	12.3	4.11
NC 55	48	2036	3481	172	65	20	31	70	3.13	15.0	4.79
Speight NF3	86	2030	3477	171	67	21	35	82	2.86	10.9	3.81
Speight 213*	88	2021	3499	173	63	19	32	76	3.43	13.3	3.88
RG 8H27*	66	2021	3584	177	74	19	33	73			
Speight 190	76	2016	3455	171	65	20	32	78	3.43	11.9	3.47
Speight 172	76	2002	3403	170	65	20	33	75	3.27	15.1	4.61
RG 8H28*	80	2002	3458	173	65	18	31	68			
Speight 196	88	1997	3468	174	70	16	33	79	3.15	15.2	4.82
NC 71	75	1973	3400	172	66	19	31	80	2.95	14.5	4.91
K 730	86	1963	3396	173	65	18	32	72	3.20	13.0	4.06
RG 4H2-17	86	1954	3419	175	73	19	33	71	3.49	14.9	4.27

PV H03	86	1944	3373	173	74	18	32	78	2.96	15.1	5.10
OX 207	71	1916	3278	171	63	20	33	75	3.73	15.4	4.12
NC 606	65	1892	2259	172	71	19	33	78	3.56	14.4	4.04
Speight 214*	81	1854	3147	170	59	18	32	78	4.27	10.5	2.46
Speight 179	76	1787	3062	171	55	19	32	79	4.08	9.5	2.33
RG 8H17*	85	1763	3030	171	67	18	32	64	3.16	14.6	4.62
GL 939	78	1744	2994	172	65	22	34	75	2.67	16.8	6.29
C 371 Gold	90	1677	2809	167	65	18	31	78	3.48	10.4	3.01
K 346	78	1634	2780	170	58	21	34	79	3.32	13.2	3.98
LSD		*505*	*924*	*5*	*13*						

[1] Price Index based on two-year average (1998-1999) prices for U.S. government grades.
[2] Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - higher the number, higher the grade. Some varieties are not shown due to low plant counts from TSWV.

* Unreleased variety.

Two- and Three-Year Averages of Official Flue-Cured Tobacco Variety Tests - Comparison of Released Varieties for Certain Characteristics, 1997-1999 Tifton, Georgia

Variety	Yield lb/A	Value $/A	Price Index[1] $/CWT	Grade Index[2]	Number Leaves/ Plant	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio (RS/TA)
	---------- Three-Year Average 1997-1999 ----------									
K 326	3065	5343	174	66	19	34	83	3.43	12.8	3.75
NC 71	2918	5007	171	60	19	33	81	3.23	14.3	4.39
K 394	2741	4750	172	63	17	31	82	3.26	15.8	3.96
Speight G 168	2692	4635	173	64	18	33	79	4.81	14.9	4.74
OX 207	2691	4637	172	60	18	34	79	3.72	15.1	4.03
NC 72	2650	4615	174	65	18	34	76	3.43	13.8	4.01
NC 95	2646	4213	160	44	18	35	72	3.60	12.5	3.77
K 730	2588	4474	173	61	17	32	78	3.46	13.7	3.98
K 149	2575	4470	171	63	19	33	81	3.50	12.2	3.61
NC 55	2481	4673	172	60	19	31	78	3.54	13.0	3.77
Speight G 172	2480	4147	167	63	19	33	80	3.79	12.0	3.36
Speight G NF3	2347	4045	171	64	20	35	83	3.20	11.7	3.72
RG H4	2332	3851	170	60	17	33	79	3.39	12.5	4.28
K 346	2228	3785	170	56	19	35	83	3.61	11.9	3.38
NC 2326	2066	3329	162	40	16	33	70	3.31	15.7	5.47
	---------- Two-Year Average 1998-1999 ----------									

K 326	3071	5336	174	65	20	33	80	3.40	11.4	3.37
RG 17	2953	5145	175	68	20	32	77	3.07	13.6	4.75
K 394	2930	5096	173	64	18	31	79	3.15	16.1	5.24
NC 95	2884	4509	157	42	18	34	68	3.69	12.1	3.26
K 399	2871	4911	170	56	19	33	77	3.23	12.8	4.33
Speight 168	2855	4876	172	62	18	32	75	3.42	13.2	3.87
Speight 178	2786	4837	173	65	20	32	78	4.08	10.4	2.55
NC 72	2723	4758	175	67	19	34	72	3.46	11.1	3.21
OX207	2691	4554	173	62	19	34	77	3.46	14.9	4.10
Speight 179	2688	4688	173	61	19	32	80	4.27	8.7	2.05
NC 55	2678	4550	171	57	20	32	76	3.56	11.8	3.46
K 358	2661	4538	171	58	18	32	72	3.60	10.6	2.93
NC 71	2654	4533	171	60	19	32	80	3.32	12.9	3.99
Speight NF3	2566	4466	174	70	20	35	80	3.28	10.2	3.19
K 149	2528	4381	171	63	19	32	78	3.74	10.2	2.76
Speight 172	2507	4103	164	61	19	33	76	3.89	10.9	3.46
RG 81	2470	4243	172	61	18	31	77	4.14	8.5	2.05
K 730	2469	4260	173	62	18	33	77	3.49	12.5	3.62
K 346	2239	3803	170	56	20	35	80	3.74	11.1	3.07
NC 2326	2070	3340	162	42	16	31	64	3.28	16.1	5.96

Conducted on an Ocilla loamy sand soil fertilized with 1000 lb/acre of 6-6-18 and 120 lb/acre 16-0-0 with plants spaced 20-22 inches apart in 44-inch rows.

[1] Price Index based on two-year average (1998-1999) prices for U.S. government grades.
[2] Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - higher the number, higher the grade. Some varieties are not shown due to low plant counts from TSWV.

Researched by Stevan S. LaHue and M. G. Stephenson, under project S1-71 and supported by grants from the Georgia Tobacco Commission.

Regional Farm Flue-Cured Tobacco Variety Test -
Comparison of Released Varieties for Certain Characteristics, 1999
Tifton, Georgia

Variety	Yield lb/A	Value $/A	Price Index[1] $/CWT	Grade Index[2]	Number Leaves/ Plant	Plant Ht. in	Days to Flower	Total Alkaloids %	Reducing Sugars %	Ratio (RS/TA)
NC 95	2632	4376	167	53	19	32	75	3.95	15.2	3.85
RG 7H10	2475	4122	167	49	19	31	80	3.31	15.7	5.06
NC TG 94	2460	4184	170	62	19	32	78	2.89	13.2	5.36
OX 7042	2384	4017	168	56	21	35	81	3.71	14.3	3.85
RG 7H9	2260	3730	165	43	18	29	81	3.39	16.0	4.72
X 737	2214	3696	166	51	20	35	79	3.61	15.0	4.16
NC 2326	2159	3462	160	41	17	30	66	3.81	15.5	4.07
PQ 7	2152	3528	164	49	19	32	74	2.84	13.0	4.58
OX 7093	2150	3664	170	57	18	29	80	3.27	15.5	4.74
VPI 115	2092	3492	167	54	19	32	74	3.37	17.3	5.13
PQ 1	1997	3328	165	49	18	31	80	3.94	13.9	3.53
Speight H20	1973	3360	170	57	18	32	80	3.79	13.2	3.48
CU 430	1634	2700	165	57	20	36	77	3.39	15.3	4.51
LSD -0.05	*520*	*940*	*8*	*15*						

Conducted on an Ocilla loamy sand soil fertilized with 1000 lb/acre of 6-6-18 and 120 lb/acre 16-0-0 with plants spaced 20-22 inches apart in 44-inch rows.

[1] Price Index based on two-year average (1998-1999) prices for U.S. government grades.
[2] Numerical values ranging from 1-99 for flue-cured tobacco based on equivalent government grades - higher the number, higher the grade. Some varieties are not shown due to low plant counts from TSWV.

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