

Tennessee Cotton Variety Test Results 2007

Chris L. Main

Assistant Professor
Department of Plant Sciences

C. Owen Gwathmey

Associate Professor
Department of Plant Sciences

Fred L. Allen

Coordinator,
Agronomic Crops Variety Testing &
Demonstration

Variety test results are posted on UT's website at
<http://varietytrials.tennessee.edu> and
www.utcrops.com

Telephone (731) 425-4707 • Fax (731) 425-4720
email cmain@utk.edu

Tennessee Cotton Variety Test Results

2007

**Edited by
C. L. Main, C.O. Gwathmey and F.L. Allen**

PB 1742
February 2008

Department of Plant Sciences
UT Extension
Agricultural Experiment Station
The University of Tennessee
Knoxville, Tennessee

This report is also available online at:
<http://www.UTcrops.com>

Chris Main (cmain@utk.edu) is an assistant professor and extension specialist for cotton and small grains in the Department of Plant Sciences. Owen Gwathmey (cogwathmey@utk.edu) is an associate professor and crop physiologist in the Department of Plant Sciences. Dr. Main and Dr. Gwathmey are located at the West Tennessee Research & Education Center, 605 Airways Blvd., Jackson TN 38301. Fred Allen (allenf@utk.edu) is a professor and coordinator of field crop variety testing in the Department of Plant Sciences at the University of Tennessee, Knoxville.

Table of Contents

	<u>Page</u>
Introduction	1
Acknowledgments	2
Seed Sources	2
Official Variety Trials (OVT's)	3
OVT 'A' Five Location Average.....	4
OVT 'A' Agricenter International	5
OVT 'A' Ames Plantation	6
OVT 'A' Fullen Farms	7
OVT 'A' Research & Education Center at Milan	8
OVT 'A' West TN Research & Education Center	9
Final Plant Height of 32 entries in OVT 'A'	10
Nodes Above Cracked Boll as a maturity tracking tool for OVT 'A'	11
OVT 'B' Five Location Average.....	12
OVT 'B' Agricenter International	13
OVT 'B' Ames Plantation.....	14
OVT 'B' Fullen Farms	15
OVT 'B' Research & Education Center at Milan.....	16
OVT 'B' West TN Research & Education Center	17
Final Plant Height of 32 entries in OVT 'B'	18
Nodes Above Cracked Boll as a maturity tracking tool for OVT 'B'	19
Node of First Fruiting Branch OVT 'A' & 'B', West TN Research & Education Center	20
Three Year OVT Average for 23 entries.....	21
Stage Four Advanced Strains Test	22
County Standard Tests	24
County Standard Test Averages Across All Locations.....	25
Carroll County	26
Crockett County.....	27
Dyer County.....	29
Fayette County	31
Gibson County	33
Hardeman County	35
Haywood County	36
Lake County	37
Lauderdale County	39
Lincoln County	41
Madison County	42
Shelby County.....	43
Tipton County.....	44
West TN Research & Education Center	46
Glossary of Terms	48

INTRODUCTION

The University of Tennessee cotton variety testing program provides an unbiased evaluation of new varieties for commercial cotton production in Tennessee. Experimental strains are also tested, and major cultivars are grown in county variety demonstrations. Results are intended to help cotton producers identify varieties that are well adapted to Tennessee, produce high quality fiber, and are relatively stable in yield performance. Results are also used by the seed industry, crop consultants, and the UT extension service to assess varietal adaptation to field environments in Tennessee.

Information contained within this report covers the major components of the 2007 cotton variety testing program of the University of Tennessee. Information reported includes yield, fiber quality data, CCC loan values and selected growth characteristics from the Official Variety Trials (OVT) and Stage IV Advanced Strains Testing. In addition to experiment station testing, the results from county standard test (CST) demonstrations of cotton varieties in West and Middle Tennessee are also included. A glossary is included at the end of this report to define technical terms and abbreviations used.

GENERAL PROCEDURES

Seed of commercial cultivars was provided by the respective companies from commercial seed lots. Smaller quantities of seed of experimental strains were furnished by the respective entrants. Seed sources are listed on the next page.

For small plot testing, varieties were assigned to plots arranged in a randomized complete block design. Fertilizer and lime were applied according to soil test results and UT recommendations for cotton. Seedbeds were prepared with conventional tillage methods at the Agricenter International, and Fullen Farms while no-tillage methods were used at the West Tennessee Research and Education Center, Milan Research and Education Center and Ames Plantation. Seed were planted on raised beds at the Agricenter International and Fullen Farms, and in flat seedbeds at the other

locations. Varieties were planted in 2-row plots with row widths of 38 inches at all locations except Milan where 40 inch spacing was used. A systemic insecticide and fungicide were applied in-furrow while planting. UT-recommended weed and pest control measures were uniformly applied to all plots. Supplemental irrigation was applied at the West Tennessee Research & Education Center and the Research & Education Center at Milan. At all locations, seedcotton harvested from each plot was weighed at picking. Subsamples of seedcotton were collected from each plot, weighed, and air-dried, bulked by varietal entry for OVT testing. Gin turnout was determined for each sample using a 20-saw gin equipped with a stick machine, incline cleaners and two lint cleaners at the West Tennessee Research and Education Center. No heat was applied during ginning. Lint yields were calculated using seedcotton weights, gin turnouts, and harvested areas. Two subsamples of lint of each entry were analyzed by HVI procedures at the International Textile Center in Lubbock, TX.

County Standard Test demonstrations were conducted in 2007 to evaluate commercial cultivar performance in multiple large plot environments. County standard testing included Roundup Ready and Roundup Ready Flex cultivars. County standard tests of early season cultivars were planted in 15 locations with each location containing 12 cultivars. County standard tests of early-mid season cultivars were planted in 15 locations with each location containing 12 cultivars. County standard tests of Liberty Link cultivars were planted in 6 locations with each location containing 5 cultivars. Each cultivar was planted in only one plot at each location and was maintained using the individual grower's production practices. Seedcotton harvested from each plot was weighed and sampled at picking. Samples were weighed, air dried, and ginned at the West Tennessee Research and Education Center as described above. A sub sample of lint of each entry was analyzed by HVI and hand-classing procedures at the USDA Cotton Classing Office in Memphis, TN. Statistical analysis was not possible for each location but overall yield and fiber quality data were analyzed using Proc MIXED using locations as replications.

ACKNOWLEDGMENTS

The authors appreciate the technical and financial support provided by the seed companies listed below. Their contributions to the University of Tennessee gift fund for cotton research helped defray some costs of conducting this research in 2007: Bayer CropScience; CropLan Genetics, Delta and Pine Land Co.; PhytoGen Seed Co.; Stoneville Pedigreed Seed Co.; UAP/Dyna-Gro.

We gratefully acknowledge donations of agricultural chemicals used in conducting this research from Bayer CropScience, BASF Corp., Crompton-Uniroyal Chemical Co., Dow AgroSciences, DuPont, FMC Corp., Monsanto, Syngenta Crop Protection, Inc., and Valent USA Corp.

We appreciate logistical support and cooperation provided by the following Branch Station administrators:

- Dr. Rick Carlisle, Research Director, Ames Plantation
- Dr. Blake A. Brown, Director, Milan Research and Education Center
- Dr. Robert M. Hayes, Director, West Tennessee Research and Education Center

We thank Dr. John Bradley, director of research and his farm crew at the Agricenter International in Memphis, for his collaboration in conducting trials at that location in 2007.

We thank Steve, Parker, Michael, Jimmy and Scott Fullen for their cooperation and support in conducting cotton variety testing on their farm in 2007.

Extension and applied research on cotton varieties was supported in part by Cotton Incorporated State Support Project No. 07-120TN.

Research at Ames Plantation was partially funded by the Hobart Ames Foundation under terms of the will of the late Julia Colony Ames.

We appreciate the cooperation of county extension agents and producers who conducted the county variety demonstrations in 2007. We also appreciate the technical cooperation of the International Textile Center in Lubbock, TX, and the USDA-AMS Cotton Division Classing Office in Memphis, which provided the fiber quality data reported herein.

Special thanks to all who helped pick and gin cotton for these experiments.

SEED SOURCES

Seeds for the 2007 University of Tennessee cotton variety tests and demonstrations were provided by:

- American Cotton Breeders, Inc. 5210 88th Street, Lubbock, TX 79424.
- Bayer CropScience, 311 Poplar View Lane West, Collierville TN 38017
- CropLan Genetics, 8700 Trail Lake Dr., Suite 100, Memphis, TN 38125
- Delta and Pine Land Co., P.O. Box 157, Scott MS 38772
- Phytogen Seed Co., P.O. Box 27, Leland MS 38756
- Stoneville Pedigreed Seed Co., 6625 Lenox Park Drive, Suite 117, Memphis TN 38115
- United Agri-Products, 57 Germantown Court, Suite 200, Cordova, TN 38018

OFFICIAL VARIETY TRIALS

C. L. Main, T. D. Bush and M. B. Ross
West Tennessee Research & Education Center
The University of Tennessee
Jackson, TN

Two types of Official Variety Trials (OVTs) of cotton were conducted in Tennessee in 2007. Conventional varieties, and varieties with Liberty-Link (LL), Roundup-Ready (RR), or Roundup Ready Flex (RF) genes, were tested in **OVT-A** and **OVT-B** at five locations. There were 32 entries from seven seed companies in both trials, including five popular check cultivars in all the OVTs. All OVTs were planted between 30 April and 14 May 2007 in 2-row plots arranged in a RCB design with four replications at each location. The row spacing was 38 inches at all locations except at Milan, where row spacing was 40 inches. Planting dates, soil types, tillage and other details are footnoted in each of the yield tables.

Between 112 and 134 days after planting (DAP), nodes above cracked boll (NACB) to the highest harvestable boll were counted in each plot. Relative maturity of the entries was estimated by assuming 50 DD60s (degree-days, base 60 F) per main-stem node to open successive first-position bolls, up to the highest harvestable boll. Plots were spindle-picked between 134 and 150 DAP. Seedcotton from each plot was weighed, and two grab samples of each variety were ginned to calculate gin turnout. Two lint samples of each variety from each location were analyzed by HVI at the International Textile Center in Lubbock, TX.

Table OVT1 presents average yield and gin turnout data for 32 entries tested in **OVT-A** across five locations in 2007. The highest yielding entry was DP 444 BG/RR (a check variety), but its yield was statistically equivalent to the top seven entries, including one other check cultivar. Micronaire was most in the premium grade range, Staple was 34-36, strength was intermediate to weak, and uniformity was mainly intermediate.

Table OVT2 - OVT6 present lint yield, gin turnout, and fiber data from the five different **OVT-A** locations.

Table OVT7 shows final plant height, and **Table 8** shows the relative maturity of the 32 **OVT-A** entries.

Table OVT9 shows the average yield, gin turnout and fiber properties of 32 entries tested in **OVT-B** across five locations in 2007. The highest yielding entry was again a check cultivar, DP 444 BG/RR, and three other check varieties had statistically equivalent yields. The top twelve varieties were statistically similar to DP 444 BG/RR. Micronaire was mostly in the premium range, with a staple of 33-36, intermediate to weak strength, and low to intermediate uniformity.

Tables OVT10 – OVT14 present lint yield, gin turnout, and fiber data from the five different **OVT-B** locations.

Table OVT15 shows final plant height, and **Table OVT16** shows the relative maturity of the 32 **OVT-B** entries.

Table OVT17. Shows the node of the first fruiting branch of all varieties in **OVT-A** and **OVT-B**.

Table OVT 18. Presents the average yield and gin turnout for 23 varieties tested in **OVT-A** and **OVT-B** across all test locations for 2005, 2006, and 2007. The highest yielding variety was ST 5242 BR with the top eight varieties being statistically similar.

Table OVT1. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at averaged across five test locations, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	444 BG/RR	✓	1219	39.8	3.8	1.08	26.4	81.0	0.4	51
2	Phytogen	375 WRF		1204	37.5	4.0	1.08	25.9	80.4	0.4	43
3	Delta & Pine Land	445 BG/RR		1201	38.7	4.0	1.10	28.9	81.7	0.4	43
4	Stoneville	4498 B2RF		1178	36.1	4.1	1.09	29.0	82.5	0.6	51
5	Stoneville	5599 BR	✓	1159	36.7	4.3	1.07	27.5	79.7	0.5	43
6	Stoneville	5242 BR		1138	37.4	4.2	1.04	25.8	80.6	0.3	43
7	Stoneville	4427 B2RF		1128	36.6	4.1	1.09	26.5	81.1	0.7	51
8	Phytogen	310 R		1121	37.3	4.3	1.04	27.6	80.9	0.5	43
9	Phytogen	370 WR	✓	1119	36.8	4.3	1.05	27.1	81.3	0.4	51
10	Stoneville	4554 B2RF		1110	35.9	4.4	1.08	29.0	81.0	0.5	51
11	Croplan Genetics	3035 RF		1108	38.4	4.2	1.07	26.9	80.7	0.3	42
12	Delta & Pine Land	121 RF		1096	36.9	4.3	1.10	27.5	81.0	0.5	51
13	Delta & Pine Land	432 RR	✓	1080	35.2	4.2	1.08	26.9	81.5	0.4	51
14	Phytogen	315 RF		1075	37.2	4.0	1.06	26.0	80.3	0.4	43
15	Delta & Pine Land	434 RR		1073	38.5	4.0	1.10	26.0	80.6	0.4	43
16	Stoneville	4664 RF		1071	37.3	4.2	1.09	28.4	81.4	0.6	51
17	Delta & Pine Land	393 RR		1062	36.9	4.2	1.10	28.3	82.0	0.4	43
18	Delta & Pine Land	117 B2RF		1040	38.4	4.1	1.10	28.4	80.8	0.7	51
19	Americot	1504 B2RF		1033	34.6	3.8	1.08	25.7	81.2	0.4	51
20	Dyna-Gro	2100 B2RF		1026	35.3	3.7	1.07	25.3	80.8	0.4	43
21	Fibermax	960 BR	✓	1005	37.4	3.8	1.08	28.2	80.6	0.4	43
22	Fibermax	1740 B2RF		993	38.4	4.1	1.07	27.3	80.4	0.4	43
23	Dyna-Gro	2490 B2RF		993	35.4	3.6	1.06	25.9	80.7	0.6	43
24	Croplan Genetics	3020 B2RF		975	35.0	3.8	1.09	25.8	81.5	0.4	43
25	Croplan Genetics	3520 B2RF		974	34.4	3.8	1.10	25.8	80.3	0.5	51
26	Stoneville	4357 B2RF		971	35.7	3.9	1.10	25.6	80.1	0.4	51
27	Fibermax	9060 F		962	37.1	3.7	1.12	26.4	79.3	0.5	43
28	Americot	1664 B2RF		961	35.1	3.9	1.11	26.2	81.2	0.6	51
29	Fibermax	955 LLB2		957	34.1	4.1	1.12	27.0	80.7	0.5	43
30	Fibermax	1600 LL		954	35.4	4.0	1.11	27.9	81.4	0.5	42
31	Dyna-Gro	2242 B2RF		948	33.9	3.9	1.10	26.0	80.7	0.6	51
32	Fibermax	1735 LLB2		945	36.6	4.0	1.09	27.4	80.6	0.4	43
Mean				1054	36.5	4.0	1.09	27.0	80.9	0.5	46
LSD (0.05)				90	1.5	0.4	0.02	1.6	1.3	0.1	
CV (%)				31.6	9.3	11.7	2.9	7.3	1.9	38.4	

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT2. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at the Agricenter International, Memphis, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	444 BG/RR	✓	977	38.2	3.3	1.06	25.0	78.5	0.3	42
2	Phytogen	375 WRF		883	33.0	3.3	1.06	23.8	78.0	0.3	41
3	Croplan Genetics	3035 RF		877	41.9	3.6	1.05	25.2	79.3	0.4	41
4	Stoneville	4664 RF		825	36.3	3.5	1.08	26.9	79.7	0.5	43
5	Stoneville	4498 B2RF		807	32.7	3.5	1.08	27.0	81.4	0.7	43
6	Delta & Pine Land	445 BG/RR		806	37.2	3.4	1.10	28.1	80.2	0.5	41
7	Stoneville	5242 BR		795	34.0	3.6	1.03	25.0	79.4	0.2	41
8	Phytogen	310 R		790	34.6	3.7	1.02	26.1	79.2	0.4	42
9	Stoneville	4554 B2RF		787	32.1	3.7	1.08	28.3	79.7	0.5	43
10	Americot	1504 B2RF		751	33.2	3.1	1.06	23.6	79.2	0.5	42
11	Stoneville	5599 BR	✓	751	32.3	3.4	1.07	25.0	77.2	0.4	43
12	Fibermax	1735 LLB2		725	36.4	3.3	1.08	25.3	79.1	0.5	42
13	Delta & Pine Land	121 RF		714	32.5	3.7	1.10	25.6	79.9	0.4	43
14	Dyna-Gro	2242 B2RF		706	36.3	3.3	1.10	25.2	80.1	0.5	43
15	Croplan Genetics	3020 B2RF		703	34.8	3.1	1.05	23.7	79.0	0.5	43
16	Delta & Pine Land	393 RR		688	33.0	3.4	1.09	27.0	80.6	0.4	43
17	Phytogen	315 RF		679	34.5	3.5	1.03	23.3	78.7	0.6	42
18	Fibermax	955 LLB2		676	34.0	3.5	1.11	25.8	78.8	0.5	41
19	Delta & Pine Land	432 RR	✓	668	29.9	3.5	1.06	24.6	79.7	0.5	43
20	Fibermax	9060 F		659	38.4	3.2	1.11	25.1	77.9	0.5	42
21	Phytogen	370 WR	✓	650	31.7	3.5	1.04	24.7	79.0	0.4	41
22	Fibermax	1740 B2RF		644	40.1	3.4	1.07	25.6	78.7	0.6	42
23	Delta & Pine Land	117 B2RF		627	36.3	3.5	1.11	26.8	80.2	0.7	43
24	Delta & Pine Land	434 RR		612	38.1	3.2	1.09	23.9	78.3	0.5	42
25	Croplan Genetics	3520 B2RF		608	32.8	3.2	1.10	23.4	78.9	0.7	43
26	Americot	1664 B2RF		608	35.0	3.1	1.08	24.3	79.1	0.8	51
27	Dyna-Gro	2490 B2RF		607	33.0	3.1	1.06	24.2	78.9	0.5	41
28	Stoneville	4357 B2RF		575	33.0	3.1	1.06	23.2	76.9	0.4	42
29	Stoneville	4427 B2RF		572	30.1	3.2	1.09	23.5	79.0	0.8	42
30	Dyna-Gro	2100 B2RF		556	33.7	3.2	1.05	23.6	79.4	0.3	42
31	Fibermax	1600 LL		529	31.2	3.3	1.10	26.4	79.5	0.6	42
32	Fibermax	960 BR	✓	509	35.8	3.1	1.07	25.9	79.6	0.4	42
Mean				690	34.4	3.4	1.07	25.1	79.1	0.5	42
LSD (0.05)				175							
CV (%)				22.1							

Planted 2 May 2007. Harvest aids applied 28 Sept, 2007. Harvested 11 Oct 2007. 100-60-90 lb/ac N-P₂O₅-K₂O.

Conventionally tilled, non-irrigated Falaya silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT3. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at Ames Plantation, Grand junction, TN, listed by yield rank.

Yield Rank	Company	Variety	Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Phytogen	375 WRF	883	41.7	4.1	1.04	25.9	78.9	0.3	51
2	Phytogen	310 R	862	41.7	4.5	1.02	26.1	79.5	0.2	51
3	Stoneville	4498 B2RF	834	40.2	4.4	1.07	28.8	81.1	0.6	52
4	Stoneville	5242 BR	820	39.9	4.2	1.01	24.5	79.9	0.3	41
5	Phytogen	370 WR ✓	812	40.3	4.6	1.03	27.3	80.1	0.3	51
6	Stoneville	4664 RF	806	40.3	4.3	1.06	28.1	80.5	0.5	51
7	Delta & Pine Land	393 RR	796	39.0	4.3	1.11	28.2	82.0	0.3	51
8	Stoneville	5599 BR ✓	791	39.8	4.7	1.02	25.4	78.2	0.4	42
9	Stoneville	4427 B2RF	787	38.2	4.3	1.07	26.3	79.9	0.5	51
10	Delta & Pine Land	432 RR ✓	785	38.1	4.5	1.06	27.6	80.8	0.4	51
11	Delta & Pine Land	121 RF	773	39.8	4.2	1.08	27.3	80.5	0.3	52
12	Stoneville	4554 B2RF	771	39.0	4.6	1.06	27.5	80.1	0.3	51
13	Delta & Pine Land	445 BG/RR	770	40.1	4.1	1.09	29.1	81.5	0.3	52
14	Delta & Pine Land	444 BG/RR ✓	764	40.6	3.8	1.04	24.9	80.2	0.3	51
15	Croplan Genetics	3035 RF	733	41.7	4.4	1.04	27.1	78.9	0.2	42
16	Phytogen	315 RF	717	40.4	4.0	1.06	25.6	79.7	0.3	51
17	Dyna-Gro	2100 B2RF	688	35.7	3.7	1.05	24.4	79.6	0.2	51
18	Stoneville	4357 B2RF	684	38.1	4.0	1.08	24.7	79.0	0.3	51
19	Fibermax	1740 B2RF	679	40.8	4.2	1.06	26.7	79.5	0.3	51
20	Croplan Genetics	3520 B2RF	672	36.2	3.7	1.08	24.6	78.8	0.5	51
21	Delta & Pine Land	434 RR	665	39.9	3.9	1.10	25.3	80.0	0.3	42
22	Fibermax	955 LLB2	663	36.3	4.4	1.08	24.6	78.6	0.3	43
23	Americot	1504 B2RF	657	36.3	3.8	1.06	25.0	80.1	0.4	51
24	Fibermax	1600 LL	651	37.9	3.9	1.09	26.9	80.5	0.4	51
25	Americot	1664 B2RF	640	36.2	3.8	1.10	25.3	79.5	0.4	51
26	Croplan Genetics	3020 B2RF	630	35.6	3.7	1.07	24.9	80.6	0.3	51
27	Fibermax	1735 LLB2	623	36.3	3.9	1.07	25.2	79.4	0.4	51
28	Dyna-Gro	2242 B2RF	602	36.5	3.7	1.08	24.6	79.4	0.5	51
29	Delta & Pine Land	117 B2RF	596	38.4	4.0	1.06	27.6	79.2	0.6	51
30	Dyna-Gro	2490 B2RF	590	36.2	3.4	1.05	25.1	79.6	0.6	43
31	Fibermax	960 BR ✓	588	39.1	3.9	1.04	25.2	79.7	0.3	41
32	Fibermax	9060 F	522	38.1	3.7	1.09	25.1	78.0	0.4	51
Mean			709	38.6	4.1	1.06	26.1	79.8	0.4	51
LSD (0.05)			99							
CV (%)			13.9							

Planted 9 May 2007. Harvest aids applied 12 Oct, 2007. Harvested 1 Nov 2007. 80-30-100 lb/ac N-P₂O₅-K₂O.

No-tilled, non-irrigated Memphis silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT4. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at Fullen Farms, Ashport, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	432 RR	✓	1531	33.9	3.9	1.10	26.2	81.5	0.4	52
2	Delta & Pine Land	445 BG/RR		1482	34.8	3.9	1.10	27.9	82.4	0.5	52
3	Stoneville	4427 B2RF		1462	37.0	4.1	1.12	26.7	82.2	0.7	52
4	Stoneville	4498 B2RF		1449	33.8	4.0	1.13	29.5	83.5	0.8	52
5	Phytogen	315 RF		1449	36.3	3.8	1.09	26.5	80.7	0.5	43
6	Delta & Pine Land	444 BG/RR	✓	1425	36.5	3.8	1.13	27.7	82.4	0.5	52
7	Delta & Pine Land	121 RF		1407	34.2	4.1	1.11	28.1	81.1	0.7	52
8	Dyna-Gro	2490 B2RF		1390	33.9	3.4	1.09	25.7	81.2	0.8	51
9	Delta & Pine Land	117 B2RF		1383	38.7	4.1	1.11	27.0	81.8	0.4	51
10	Phytogen	375 WRF		1342	34.1	3.7	1.13	25.2	81.8	0.7	52
11	Croplan Genetics	3035 RF		1342	31.9	3.9	1.10	26.6	80.9	0.5	52
12	Dyna-Gro	2100 B2RF		1330	34.3	3.5	1.10	25.2	80.2	0.5	43
13	Delta & Pine Land	434 RR		1328	35.8	3.9	1.12	26.8	80.9	0.4	43
14	Phytogen	310 R		1317	34.5	3.9	1.09	27.8	82.0	0.5	52
15	Stoneville	4554 B2RF		1310	32.5	4.1	1.12	29.8	81.7	0.6	52
16	Fibermax	9060 F		1303	35.9	3.6	1.14	25.9	79.9	0.5	52
17	Stoneville	5599 BR	✓	1301	32.6	4.0	1.09	28.5	80.4	0.7	52
18	Americot	1504 B2RF		1285	32.5	3.7	1.11	25.4	81.5	0.5	52
19	Stoneville	5242 BR		1273	32.6	4.0	1.07	27.2	80.7	0.4	52
20	Americot	1664 B2RF		1253	33.2	4.1	1.12	26.8	81.6	0.6	52
21	Phytogen	370 WR	✓	1251	33.4	4.2	1.08	27.6	82.2	0.6	51
22	Stoneville	4664 RF		1244	34.5	3.9	1.13	27.2	82.7	0.7	52
23	Croplan Genetics	3520 B2RF		1210	31.7	3.7	1.13	24.9	80.8	0.6	52
24	Dyna-Gro	2242 B2RF		1179	32.9	3.9	1.11	25.5	80.2	0.6	52
25	Stoneville	4357 B2RF		1175	32.7	3.7	1.13	25.4	81.3	0.4	52
26	Delta & Pine Land	393 RR		1173	35.2	4.2	1.12	27.4	82.0	0.3	42
27	Croplan Genetics	3020 B2RF		1148	32.1	3.6	1.10	26.0	82.4	0.4	52
28	Fibermax	1600 LL		1139	33.9	4.0	1.14	27.4	82.5	0.5	43
29	Fibermax	960 BR	✓	1104	33.0	3.7	1.11	30.0	80.5	0.6	52
30	Fibermax	1740 B2RF		1049	34.2	4.0	1.07	27.0	79.5	0.4	43
31	Fibermax	955 LLB2		993	33.0	4.1	1.15	26.9	81.1	0.3	51
32	Fibermax	1735 LLB2		925	35.1	3.9	1.12	27.5	81.4	0.4	52
Mean				1272	34.1	3.9	1.11	27.0	81.4	0.5	51
LSD (0.05)				198							
CV (%)				14.6							

Planted 7 May 2007. Harvest aids applied 30 Sept, 2007. Harvested 17 Oct 2007. 133-0-54 lb/ac N-P₂O₅-K₂O.

Conventionally tilled, non-irrigated Commerce silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT5. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at the Research and Education Center at Milan, Milan, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield	Gin turnout	Micro-naire	Fiber Length	Fiber Strength	Unifor mity	HVI Trash	Color Grade
				lb/ac	%		in.	g/tex	%	%	
1	Stoneville	5599 BR	✓	1754	39.5	4.8	1.09	30.5	81.6	0.7	43
2	Delta & Pine Land	445 BG/RR		1711	42.1	4.6	1.11	29.9	81.8	0.4	43
3	Delta & Pine Land	444 BG/RR	✓	1703	42.7	4.2	1.08	28.0	82.4	0.4	51
4	Phytogen	375 WRF		1694	38.2	4.7	1.09	28.6	81.9	0.3	43
5	Stoneville	4427 B2RF		1672	39.7	4.6	1.10	29.0	82.9	0.7	51
6	Phytogen	370 WR	✓	1618	39.0	4.9	1.06	28.5	82.6	0.2	51
7	Stoneville	4498 B2RF		1588	36.6	4.6	1.09	31.3	83.4	0.4	43
8	Fibermax	960 BR	✓	1584	41.0	4.3	1.09	30.7	81.6	0.3	41
9	Delta & Pine Land	393 RR		1530	38.8	4.9	1.11	30.4	82.8	0.3	43
10	Delta & Pine Land	434 RR		1521	39.1	4.7	1.13	27.9	83.4	0.4	41
11	Stoneville	4554 B2RF		1456	37.4	4.9	1.07	30.4	81.3	0.4	51
12	Stoneville	5242 BR		1449	38.8	4.6	1.05	27.1	81.7	0.4	43
13	Dyna-Gro	2100 B2RF		1420	36.7	4.4	1.09	27.7	82.8	0.5	43
14	Delta & Pine Land	121 RF		1381	37.4	4.8	1.12	29.1	83.1	0.5	51
15	Fibermax	1740 B2RF		1368	37.1	4.5	1.10	30.0	82.1	0.5	41
16	Delta & Pine Land	117 B2RF		1366	38.9	4.4	1.10	31.8	81.4	0.9	51
17	Stoneville	4664 RF		1361	35.5	4.7	1.09	30.2	82.5	0.7	51
18	Fibermax	955 LLB2		1361	31.8	4.8	1.15	29.9	82.7	0.6	41
19	Americot	1504 B2RF		1353	34.4	4.5	1.09	28.8	83.0	0.3	43
20	Croplan Genetics	3035 RF		1353	35.7	4.8	1.08	27.7	81.8	0.4	41
21	Croplan Genetics	3020 B2RF		1338	36.8	4.4	1.10	27.4	82.9	0.2	41
22	Phytogen	310 R		1333	35.1	5.0	1.05	29.3	81.8	0.3	41
23	Delta & Pine Land	432 RR	✓	1331	35.8	4.6	1.08	28.9	82.6	0.4	51
24	Stoneville	4357 B2RF		1328	36.9	4.5	1.13	29.0	81.6	0.4	41
25	Fibermax	1600 LL		1310	35.0	4.5	1.11	30.6	82.4	0.5	43
26	Phytogen	315 RF		1295	34.1	4.7	1.09	28.3	81.7	0.4	51
27	Dyna-Gro	2242 B2RF		1286	34.6	4.4	1.11	28.6	82.2	0.7	43
28	Fibermax	1735 LLB2		1209	36.0	4.4	1.09	30.4	81.7	0.5	41
29	Croplan Genetics	3520 B2RF		1171	33.6	4.5	1.09	28.9	81.5	0.4	51
30	Americot	1664 B2RF		1135	34.1	4.4	1.13	28.7	83.2	0.5	51
31	Fibermax	9060 F		1130	34.5	4.3	1.14	29.7	80.5	0.6	41
32	Dyna-Gro	2490 B2RF		1068	29.4	4.2	1.06	27.6	82.3	0.4	51
Mean				1412	36.7	4.6	1.09	29.2	82.2	0.5	43
LSD (0.05)				200							
CV (%)				13.2							

Planted 14 May 2007. Harvest aids applied 14 Oct, 2007. Harvested 30 Oct 2007. 110-45-90 lb/ac N-P₂O₅-K₂O.

No-tilled, irrigated Loring silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT6. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at the West TN Research and Education Center, Jackson, TN, listed by yield rank.

Yield Rank	Company	Variety	Lint Yield	Gin turnout	Micro-naire	Fiber Length	Fiber Strength	Unifor mity	HVI Trash	Color Grade
			lb/ac	%		in.	g/tex	%	%	
1	Stoneville	5242 BR	1356	41.8	4.5	1.03	25.3	81.4	0.4	43
2	Phytogen	310 R	1303	40.7	4.4	1.05	28.7	82.3	0.8	51
3	Phytogen	370 WR	✓ 1263	39.9	4.4	1.06	27.5	82.5	0.5	43
4	Fibermax	1735 LLB2	1243	39.4	4.2	1.11	28.9	81.6	0.4	42
5	Fibermax	960 BR	✓ 1242	38.1	3.8	1.09	29.1	81.5	0.5	41
6	Delta & Pine Land	434 RR	1241	39.5	4.2	1.09	26.4	80.3	0.5	42
7	Delta & Pine Land	445 BG/RR	1235	39.6	4.3	1.11	29.7	82.8	0.4	42
8	Croplan Genetics	3035 RF	1234	41.1	4.3	1.09	28.1	82.7	0.3	41
9	Phytogen	315 RF	1233	40.6	4.1	1.07	26.3	80.6	0.4	42
10	Stoneville	4554 B2RF	1229	38.6	4.5	1.08	29.1	82.4	0.5	43
11	Fibermax	1740 B2RF	1227	40.2	4.3	1.08	27.2	82.2	0.5	42
12	Delta & Pine Land	117 B2RF	1227	39.8	4.3	1.11	28.7	81.6	0.8	51
13	Delta & Pine Land	444 BG/RR	✓ 1224	41.3	4.0	1.08	26.6	81.4	0.3	42
14	Phytogen	375 WRF	1217	40.7	4.3	1.08	25.9	81.7	0.5	42
15	Stoneville	4498 B2RF	1212	37.2	4.0	1.10	28.6	83.0	0.6	43
16	Croplan Genetics	3520 B2RF	1208	37.7	4.0	1.10	27.4	81.5	0.5	43
17	Delta & Pine Land	121 RF	1207	40.8	4.6	1.09	27.6	80.7	0.5	51
18	Stoneville	5599 BR	✓ 1201	39.7	4.6	1.07	28.4	81.4	0.5	43
19	Fibermax	9060 F	1196	39.0	3.9	1.12	26.3	80.1	0.4	41
20	Dyna-Gro	2242 B2RF	1192	37.0	4.2	1.11	26.0	81.9	0.6	42
21	Americot	1664 B2RF	1172	37.2	4.1	1.13	26.0	82.8	0.5	42
22	Stoneville	4427 B2RF	1149	38.1	4.4	1.09	26.9	81.8	1.0	42
23	Fibermax	1600 LL	1143	38.9	4.1	1.12	28.4	82.2	0.4	42
24	Dyna-Gro	2100 B2RF	1138	36.1	3.9	1.08	25.8	82.0	0.5	42
25	Delta & Pine Land	393 RR	1125	38.7	4.5	1.11	28.8	82.9	0.5	43
26	Americot	1504 B2RF	1121	36.5	4.0	1.06	25.8	82.1	0.5	42
27	Stoneville	4664 RF	1118	39.9	4.4	1.08	30.0	81.6	0.5	43
28	Stoneville	4357 B2RF	1095	38.1	4.1	1.11	25.7	82.1	0.5	51
29	Fibermax	955 LLB2	1091	35.4	3.9	1.14	27.8	82.6	0.8	42
30	Delta & Pine Land	432 RR	✓ 1087	38.3	4.4	1.09	27.1	83.0	0.5	43
31	Dyna-Gro	2490 B2RF	1085	37.2	3.6	1.07	27.2	81.7	0.8	42
32	Croplan Genetics	3020 B2RF	1058	36.0	3.9	1.12	26.9	82.9	0.4	42
Mean			1190	38.8	4.2	1.09	27.4	81.9	0.5	43
LSD (0.05)			126							
CV (%)			9.2							

Planted 30 April 2007. Harvest aids applied 6 Sept, 2007. Harvested 24 Sept 2007. 80-45-90 lb/ac N-P₂O₅-K₂O.

No-tilled, irrigated Lexington silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT7. Final plant height of 32 entries in the 2007 Tennessee Official Variety Trial 'A' at five locations, listed by average plant height.

Company	Variety		Agricenter	Ames Pln.	Fullen Farms	Milan REC	WTREC	Average
			inch	inch	inch	inch	inch	inch
Fibermax	960 BR	✓	33	33	26	34	27	31
Fibermax	9060 F		34	31	28	34	29	31
Fibermax	955 LLB2		33	36	25	36	28	32
Fibermax	1740 B2RF		34	33	28	36	29	32
Stoneville	4554 B2RF		34	35	29	35	29	33
Croplan Genetics	3020 B2RF		37	35	29	35	28	33
Americot	1504 B2RF		37	35	29	35	29	33
Stoneville	4498 B2RF		34	35	30	36	28	33
Dyna-Gro	2100 B2RF		35	34	29	36	31	33
Americot	1664 B2RF		36	35	29	36	30	33
Dyna-Gro	2490 B2RF		36	37	28	38	31	34
Dyna-Gro	2242 B2RF		37	36	30	37	31	34
Stoneville	4357 B2RF		39	36	30	36	31	34
Fibermax	1735 LLB2		37	38	30	39	30	35
Delta & Pine Land	393 RR		38	38	28	38	33	35
Stoneville	4427 B2RF		39	37	30	38	32	35
Stoneville	4664 RF		38	36	30	40	32	35
Croplan Genetics	3520 B2RF		37	37	30	40	31	35
Delta & Pine Land	445 BG/RR		38	38	31	38	32	35
Delta & Pine Land	432 RR	✓	39	37	30	39	33	35
Stoneville	5242 BR		39	37	32	39	32	36
Delta & Pine Land	434 RR		38	36	32	40	32	36
Delta & Pine Land	117 B2RF		39	39	31	39	32	36
Phytogen	375 WRF		38	37	33	39	33	36
Croplan Genetics	3035 RF		40	38	32	40	32	36
Fibermax	1600 LL		41	38	28	42	33	36
Phytogen	370 WR	✓	39	40	31	40	35	37
Phytogen	315 RF		39	38	34	41	34	37
Delta & Pine Land	121 RF		42	38	32	40	33	37
Phytogen	310 R		40	39	34	39	34	37
Stoneville	5599 BR	✓	42	39	36	41	35	38
Delta & Pine Land	444 BG/RR	✓	41	38	34	41	36	38
Mean			38	36	30	38	31	35
LSD (0.05)			2.6	3.2	3.3	3.1	2.0	2.7
CV (%)			4.9	6.4	7.8	5.8	4.5	5.9

Tennessee Ag. Experiment Station data of Main et al. (2007).

Table OVT8. Nodes above cracked boll (NACB) on dates indicated, and estimated DD60's remaining to maturity of 32 entries in the 2007 Tennessee Official Variety Trial 'A', listed in order of average maturity.

Company	Variety		Agricenter 09/18/07		Ames Pln. 09/18/07		Fullen Farms 09/07/07		Milan REC 09/20/07		WTREC 08/30/07		Average	
			NACB ¹	DD60 ²	NACB	DD60	NACB	DD60	NACB	DD60	NACB	DD60	NACB	DD60
Croplan Genetics	3520 B2RF		0.2	8	0.1	3	0.9	43	2.9	143	2.1	105	1.2	60
Dyna-Gro	2100 B2RF		0.0	0	0.7	35	0.8	40	3.1	153	1.8	88	1.3	63
Phytogen	370 WR	✓	0.0	0	0.8	40	1.0	48	3.2	158	1.5	75	1.3	64
Americot	1664 B2RF		0.0	0	0.3	13	1.0	50	2.6	130	2.8	140	1.3	67
Delta & Pine Land	444 BG/RR	✓	0.1	3	0.6	28	0.8	40	3.2	158	2.1	105	1.3	67
Phytogen	310 R		0.0	0	0.5	23	1.1	53	3.7	183	1.8	90	1.4	70
Dyna-Gro	2242 B2RF		0.0	0	0.3	13	0.9	45	4.1	203	1.9	95	1.4	71
Phytogen	375 WRF		0.0	0	0.1	5	0.8	38	2.8	138	3.5	175	1.4	71
Croplan Genetics	3020 B2RF		0.0	0	0.2	8	0.9	43	3.6	178	2.6	130	1.4	72
Fibermax	9060 F		0.0	0	0.2	10	1.1	53	3.8	190	2.2	110	1.5	73
Delta & Pine Land	121 RF		0.0	0	0.7	33	0.8	40	3.5	175	2.4	118	1.5	73
Fibermax	1740 B2RF		0.0	0	0.5	23	1.0	48	3.4	170	2.7	133	1.5	75
Phytogen	315 RF		0.1	3	0.4	20	0.7	33	3.8	188	2.6	130	1.5	75
Americot	1504 B2RF		0.1	5	0.7	35	0.7	35	3.7	185	2.4	120	1.5	76
Delta & Pine Land	432 RR	✓	0.0	0	0.6	30	0.8	40	3.2	158	3.1	155	1.5	77
Fibermax	1735 LLB2		0.1	3	0.6	30	1.0	50	3.1	153	3.0	148	1.5	77
Stoneville	4427 B2RF		0.0	0	0.6	28	0.7	33	4.2	210	2.8	138	1.6	82
Fibermax	1600 LL		0.0	0	0.4	18	1.0	48	4.2	210	2.9	143	1.7	84
Croplan Genetics	3035 RF		0.2	8	0.5	25	1.0	50	3.7	183	3.2	158	1.7	85
Delta & Pine Land	117 B2RF		0.1	5	0.6	28	1.0	50	3.9	193	3.0	150	1.7	85
Stoneville	4357 B2RF		0.0	0	0.6	30	1.1	55	4.1	203	2.8	140	1.7	86
Stoneville	5242 BR		0.1	5	0.6	28	1.0	48	4.6	228	2.5	125	1.7	87
Delta & Pine Land	434 RR		0.1	5	0.5	25	0.9	43	4.0	200	3.4	168	1.8	88
Delta & Pine Land	445 BG/RR		0.0	0	0.4	20	0.9	45	4.2	210	3.5	175	1.8	90
Stoneville	4498 B2RF		0.3	13	0.9	45	0.8	40	3.9	193	3.5	173	1.9	93
Dyna-Gro	2490 B2RF		0.3	13	0.3	15	0.9	43	4.4	220	3.6	178	1.9	94
Stoneville	4664 RF		0.0	0	0.3	15	0.9	45	4.6	228	3.7	185	1.9	95
Stoneville	4554 B2RF		0.2	8	1.2	60	1.0	48	3.4	170	3.9	193	1.9	96
Fibermax	960 BR	✓	0.0	0	0.7	33	1.0	48	4.8	240	3.3	163	1.9	97
Delta & Pine Land	393 RR		0.2	8	0.7	33	1.0	50	4.7	233	3.5	173	2.0	99
Fibermax	955 LLB2		0.0	0	1.2	58	0.9	43	4.0	200	4.0	198	2.0	100
Stoneville	5599 BR	✓	0.1	5	0.7	33	1.0	48	5.1	255	4.4	218	2.2	112
Mean			0	3	1	26	1	45	4	188	3	143	2	81
LSD (0.05)			NS	NS	NS	NS	NS	NS	NS	NS	1.2	57.0	NS	NS
CV (%)			29.5	29.5	50.3	50.3	31.4	31.4	32.0	32.0	30.5	30.5	38.2	38.2

¹NACB = nodes above highest 1st-position cracked boll to the highest harvestable boll.

²DD60 = degree-days, base 60F. DD60 to maturity = NACB x (50 DD60/node) to open the highest harvestable boll.

Tennessee Ag. Experiment Station data of Main et al. (2007).

Table OVT9. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at averaged across five test locations, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	444 BG/RR	✓	1054	37.4	3.8	1.07	26.5	80.9	0.4	43
2	Stoneville	5599 BR	✓	1031	36.6	4.3	1.04	26.3	79.4	0.4	43
3	Phytogen	370 WR	✓	1019	36.0	4.3	1.03	26.8	80.4	0.4	43
4	Stoneville	5327 B2RF		1015	36.0	4.2	1.07	28.7	81.0	0.5	51
5	Delta & Pine Land	432 RR	✓	993	34.8	4.2	1.06	26.8	80.9	0.4	43
6	Croplan Genetics	3220 B2RF		992	37.5	4.2	1.08	26.2	80.3	0.4	43
7	Americot	1550 B2RF		992	37.8	4.1	1.04	24.8	79.1	0.3	43
8	Delta & Pine Land	161 B2RF		991	34.9	4.2	1.13	27.2	81.2	0.6	51
9	Stoneville	4596 B2RF		984	35.0	4.4	1.12	28.8	81.1	0.5	51
10	Delta & Pine Land	515 BG/RR		979	35.5	4.2	1.04	25.9	79.4	0.3	43
11	Delta & Pine Land	167 RF		978	34.8	4.2	1.10	26.6	80.4	0.4	43
12	Delta & Pine Land	455 BG/RR		975	35.9	3.9	1.06	26.7	79.5	0.3	41
13	Phytogen	485 WRF		965	36.3	4.3	1.08	28.0	81.8	0.7	51
14	Delta & Pine Land	454 BG/RR		964	38.0	3.9	1.02	26.3	80.0	0.7	51
15	Americot	1532 B2RF		964	35.4	3.9	1.09	25.3	79.6	0.4	43
16	Stoneville	5458 B2RF		963	35.6	4.3	1.08	26.7	80.0	0.6	43
17	Dyna-Gro	2383 B2RF		950	35.2	4.0	1.07	26.8	80.7	0.7	51
18	Stoneville	6351 B2RF		949	33.8	4.0	1.10	27.1	79.7	0.4	43
19	Bayer Crop Sci. Exp.	2171 B2RF		946	35.9	4.0	1.08	26.6	80.4	0.5	51
20	Delta & Pine Land	141 B2RF		945	35.3	4.1	1.12	27.1	79.9	0.6	43
21	Croplan Genetics	4020 B2RF		932	35.8	4.0	1.09	24.7	79.7	0.4	43
22	Delta & Pine Land	164 B2RF		931	34.2	4.3	1.11	26.6	80.4	0.4	43
23	Delta & Pine Land	174 RF		928	36.7	4.3	1.07	25.8	79.8	0.4	42
24	Stoneville	5283 RF		926	34.9	4.2	1.07	29.0	81.3	0.5	51
25	Dyna-Gro	2520 B2RF		923	35.5	3.9	1.09	25.1	79.9	0.4	51
26	Phytogen	425 RF		906	34.8	4.4	1.07	28.2	81.6	0.6	51
27	Delta & Pine Land	555 BG/RR		898	36.2	4.3	1.03	25.6	78.7	0.4	43
28	Phytogen	480 WR		894	35.3	4.3	1.09	28.6	82.0	0.6	51
29	Stoneville	4678 B2RF		885	35.1	4.3	1.10	27.6	80.9	0.8	43
30	Delta & Pine Land	143 B2RF		882	35.0	3.9	1.11	26.5	78.9	0.6	43
31	Fibermax	960 BR	✓	840	35.8	3.7	1.07	27.6	79.7	0.4	42
32	Fibermax Exp.	4327 B2RF		837	34.8	3.9	1.09	26.7	79.4	0.5	43
Mean				945	35.6	4.1	1.08	26.8	80.3	0.5	43
LSD (0.05)				84	1.5	0.5	0.02	1.5	1.2	0.2	
CV (%)				34.3	9.7	13.5	3.3	7.2	1.9	43.5	

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT10. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at Agricenter International, Memphis, TN, listed by yield rank.

Yield Rank	Company	Variety	Lint Yield lb/ac	Gin turnout %	Micro-naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	454 BG/RR	689	36.7	3.2	1.05	23.9	79.2	0.8	42
2	Stoneville	5599 BR ✓	656	35.0	3.5	1.04	24.9	78.6	0.5	43
3	Delta & Pine Land	455 BG/RR	648	34.7	3.4	1.05	24.9	78.3	0.3	31
4	Stoneville	4596 B2RF	646	32.6	3.7	1.11	27.9	79.7	0.7	43
5	Phytogen	370 WR ✓	594	37.4	3.4	1.01	23.7	78.2	0.3	41
6	Stoneville	5283 RF	590	33.9	3.6	1.06	26.6	79.5	0.6	43
7	Dyna-Gro	2383 B2RF	569	32.6	3.2	1.06	24.3	78.9	0.7	43
8	Stoneville	5327 B2RF	560	30.9	3.6	1.07	28.3	80.1	0.5	43
9	Stoneville	5458 B2RF	554	34.7	3.4	1.07	24.6	79.3	0.6	43
10	Americot	1550 B2RF	552	37.4	3.2	1.03	23.0	77.2	0.3	31
11	Phytogen	485 WRF	542	33.7	3.6	1.06	25.5	79.9	0.8	43
12	Dyna-Gro	2520 B2RF	535	32.9	3.2	1.09	22.9	78.6	0.5	43
13	Delta & Pine Land	515 BG/RR	511	32.9	3.2	1.03	24.5	77.2	0.5	42
14	Delta & Pine Land	164 B2RF	508	32.9	3.3	1.09	26.0	78.2	0.6	43
15	Delta & Pine Land	444 BG/RR ✓	498	34.2	3.2	1.08	25.4	80.0	0.3	43
16	Delta & Pine Land	432 RR ✓	497	33.7	3.5	1.05	25.5	79.1	0.4	43
17	Croplan Genetics	4020 B2RF	494	34.9	3.1	1.08	23.0	77.1	0.4	41
18	Delta & Pine Land	141 B2RF	492	33.9	3.3	1.09	25.3	78.4	0.8	43
19	Stoneville	4678 B2RF	487	32.6	3.6	1.11	26.6	79.5	0.9	42
20	Americot	1532 B2RF	478	35.7	3.0	1.11	23.5	77.8	0.6	43
21	Stoneville	6351 B2RF	476	32.2	3.2	1.08	24.5	77.8	0.4	43
22	Croplan Genetics	3220 B2RF	473	34.9	3.3	1.08	25.5	78.0	0.3	43
23	Bayer Crop Sci. Exp.	2171 B2RF	472	32.5	3.1	1.06	25.4	78.3	0.4	43
24	Phytogen	425 RF	454	33.7	3.7	1.09	26.2	80.4	0.7	43
25	Delta & Pine Land	167 RF	451	31.1	3.5	1.08	24.2	79.5	0.3	43
26	Fibermax Exp.	4327 B2RF	444	35.0	3.0	1.10	24.2	77.8	0.6	43
27	Phytogen	480 WR	439	32.9	3.6	1.08	26.5	79.9	0.6	43
28	Fibermax	960 BR ✓	402	34.5	2.9	1.06	25.9	78.9	0.3	42
29	Delta & Pine Land	161 B2RF	395	34.0	3.3	1.11	26.0	79.8	0.7	43
30	Delta & Pine Land	555 BG/RR	392	36.1	3.5	1.02	23.7	77.7	0.5	42
31	Delta & Pine Land	143 B2RF	368	34.7	3.2	1.11	25.6	78.3	0.7	43
32	Delta & Pine Land	174 RF	347	36.4	3.6	1.05	23.2	78.8	0.4	41
Mean			501	34.0	3.3	1.07	25.1	78.7	0.5	43
LSD (0.05)			148							
CV (%)			22.2							

Planted 2 May 2007. Harvest aids applied 28 Sept, 2007. Harvested 11 Oct 2007. 100-60-90 lb/ac N-P₂O₅-K₂O.

Conventionally tilled, non-irrigated Falaya silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT11. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at Ames Plantation, Grand Junction, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield	Gin turnout	Micro-naire	Fiber Length	Fiber Strength	Unifor mity	HVI Trash	Color Grade
				lb/ac	%		in.	g/tex	%	%	
1	Delta & Pine Land	432 RR	✓	952	38.9	4.7	1.03	26.3	80.1	0.3	43
2	Stoneville	5599 BR	✓	911	40.2	4.8	1.03	25.3	78.1	0.3	51
3	Phytogen	370 WR	✓	898	42.1	4.7	1.01	27.5	79.7	0.3	52
4	Stoneville	5283 RF		866	40.6	4.5	1.06	28.7	81.1	0.5	52
5	Bayer Crop Sci. Exp.	2171 B2RF		845	38.4	4.4	1.06	25.5	79.3	0.4	51
6	Stoneville	5327 B2RF		829	40.3	4.5	1.05	28.0	80.4	0.3	52
7	Delta & Pine Land	455 BG/RR		824	41.1	4.0	1.03	25.7	78.8	0.2	51
8	Delta & Pine Land	164 B2RF		799	37.7	4.8	1.08	26.4	79.7	0.2	43
9	Delta & Pine Land	515 BG/RR		797	39.2	4.7	1.04	26.4	79.7	0.2	51
10	Delta & Pine Land	174 RF		796	41.7	4.7	1.08	25.6	79.3	0.4	43
11	Delta & Pine Land	454 BG/RR		795	41.0	4.1	0.99	26.2	78.9	0.5	51
12	Dyna-Gro	2383 B2RF		783	38.4	4.4	1.06	26.6	81.3	0.5	52
13	Delta & Pine Land	444 BG/RR	✓	781	40.5	4.0	1.04	25.7	80.5	0.4	51
14	Phytogen	485 WRF		777	38.4	4.7	1.05	27.4	81.3	0.5	52
15	Delta & Pine Land	141 B2RF		766	38.1	4.5	1.12	26.9	79.3	0.5	51
16	Americot	1532 B2RF		762	38.9	4.2	1.07	24.9	79.7	0.3	52
17	Americot	1550 B2RF		759	41.4	4.5	1.02	24.5	79.3	0.2	52
18	Stoneville	4596 B2RF		758	37.8	4.6	1.10	28.4	80.4	0.5	51
19	Delta & Pine Land	555 BG/RR		757	41.8	4.6	1.02	25.9	78.3	0.2	51
20	Delta & Pine Land	167 RF		755	37.5	4.4	1.08	25.5	79.6	0.2	51
21	Stoneville	6351 B2RF		749	35.6	4.2	1.09	27.8	78.9	0.3	52
22	Phytogen	425 RF		744	37.8	4.8	1.05	28.8	81.2	0.6	52
23	Delta & Pine Land	161 B2RF		730	38.0	4.5	1.11	26.8	80.8	0.5	51
24	Stoneville	4678 B2RF		727	37.1	4.3	1.09	27.6	80.7	0.8	51
25	Stoneville	5458 B2RF		711	39.7	4.6	1.05	26.0	79.1	0.7	52
26	Phytogen	480 WR		704	36.7	4.6	1.09	28.9	81.8	0.5	51
27	Delta & Pine Land	143 B2RF		683	38.6	4.1	1.10	26.8	78.5	0.4	51
28	Dyna-Gro	2520 B2RF		676	38.2	4.2	1.06	24.5	79.1	0.3	52
29	Fibermax Exp.	4327 B2RF		660	38.2	4.3	1.07	27.1	78.5	0.4	42
30	Croplan Genetics	4020 B2RF		654	38.2	4.2	1.09	24.5	79.2	0.4	52
31	Croplan Genetics	3220 B2RF		631	40.4	4.4	1.05	26.4	79.3	0.3	52
32	Fibermax	960 BR	✓	630	35.9	4.2	1.04	27.2	78.7	0.3	43
Mean				766	39.0	4.4	1.06	26.5	79.7	0.4	43
LSD (0.05)				148							
CV (%)				22.1							

Planted 9 May 2007. Harvest aids applied 12 Oct, 2007. Harvested 1 Nov 2007. 80-30-100 lb/ac N-P₂O₅-K₂O.

No-tilled, non-irrigated Memphis silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT12. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at Fullen Farms, Ashport, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	444 BG/RR	✓	1394	36.4	3.5	1.09	26.0	80.5	0.5	52
2	Fibermax Exp.	4327 B2RF		1352	32.6	3.7	1.13	26.7	80.2	0.6	52
3	Phytogen	425 RF		1333	33.5	4.1	1.10	27.7	81.8	0.8	52
4	Delta & Pine Land	174 RF		1310	35.7	4.1	1.10	25.4	80.4	0.6	51
5	Delta & Pine Land	455 BG/RR		1299	36.8	3.6	1.11	27.5	80.1	0.3	42
6	Stoneville	5599 BR	✓	1299	33.9	3.8	1.08	25.5	79.5	0.4	52
7	Stoneville	5458 B2RF		1286	34.9	3.9	1.12	26.8	79.9	0.7	52
8	Delta & Pine Land	164 B2RF		1278	34.6	4.0	1.16	26.0	81.1	0.6	52
9	Dyna-Gro	2383 B2RF		1266	33.0	3.7	1.09	26.6	80.4	1.0	52
10	Americot	1550 B2RF		1257	33.9	3.8	1.05	25.5	78.5	0.5	52
11	Croplan Genetics	3220 B2RF		1255	35.2	3.8	1.12	25.7	80.6	0.5	51
12	Phytogen	370 WR	✓	1227	34.3	4.0	1.06	25.6	80.6	0.4	51
13	Delta & Pine Land	141 B2RF		1214	34.6	3.9	1.14	26.9	79.8	1.1	52
14	Bayer Crop Sci. Exp.	2171 B2RF		1193	33.8	3.8	1.13	25.6	82.3	0.4	52
15	Croplan Genetics	4020 B2RF		1185	34.4	3.7	1.11	23.7	79.1	0.4	52
16	Delta & Pine Land	161 B2RF		1183	33.2	4.1	1.16	26.3	81.2	0.8	52
17	Delta & Pine Land	432 RR	✓	1178	32.2	3.8	1.10	26.5	80.5	0.6	52
18	Delta & Pine Land	454 BG/RR		1171	33.4	3.5	1.06	25.6	79.6	0.9	51
19	Delta & Pine Land	555 BG/RR		1157	33.7	4.2	1.08	24.8	78.6	0.4	43
20	Stoneville	5283 RF		1157	34.6	3.9	1.11	28.7	81.6	0.5	52
21	Dyna-Gro	2520 B2RF		1140	32.9	3.5	1.13	24.0	80.5	0.6	52
22	Delta & Pine Land	143 B2RF		1123	30.6	3.5	1.14	26.0	78.3	0.8	52
23	Stoneville	4596 B2RF		1122	30.5	4.2	1.13	28.2	81.0	0.6	52
24	Fibermax	960 BR	✓	1103	34.1	3.3	1.11	26.7	79.7	0.5	41
25	Stoneville	6351 B2RF		1102	30.4	3.7	1.12	26.2	80.0	0.4	52
26	Delta & Pine Land	167 RF		1099	32.6	3.7	1.16	26.3	81.4	0.7	52
27	Stoneville	4678 B2RF		1083	32.8	4.1	1.12	26.7	80.4	0.7	51
28	Americot	1532 B2RF		1082	30.4	3.6	1.12	25.9	79.8	0.4	42
29	Phytogen	485 WRF		1082	31.9	4.1	1.12	28.3	82.7	0.6	52
30	Stoneville	5327 B2RF		1075	32.9	3.9	1.10	28.3	80.9	0.5	52
31	Phytogen	480 WR		1070	32.8	4.0	1.13	27.9	82.7	0.8	52
32	Delta & Pine Land	515 BG/RR		1013	33.4	3.9	1.09	25.4	80.2	0.4	51
Mean				1190	33.4	3.8	1.11	26.3	80.4	0.6	43
LSD (0.05)				148							
CV (%)				13.2							

Planted 7 May 2007. Harvest aids applied 30 Sept, 2007. Harvested 17 Oct 2007. 133-0-54 lb/ac N-P₂O₅-K₂O.

Conventionally tilled, non-irrigated Commerce silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT13. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at the Research and Education Center at Milan, Milan, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield lb/ac	Gin turnout %	Micro- naire	Fiber Length in.	Fiber Strength g/tex	Unifor mity %	HVI Trash %	Color Grade
1	Delta & Pine Land	161 B2RF		1499	38.5	5.0	1.12	28.4	81.9	0.5	43
2	Stoneville	5599 BR	✓	1475	41.0	4.9	1.04	28.8	80.2	0.4	41
3	Americot	1550 B2RF		1431	41.3	4.8	1.04	25.6	80.4	0.2	43
4	Phytogen	370 WR	✓	1403	36.2	5.0	1.04	30.1	82.0	0.5	43
5	Delta & Pine Land	432 RR	✓	1382	35.9	4.8	1.08	28.9	83.1	0.4	43
6	Delta & Pine Land	444 BG/RR	✓	1369	39.7	4.2	1.08	28.1	82.2	0.4	41
7	Delta & Pine Land	141 B2RF		1362	39.6	4.7	1.14	29.6	81.9	0.3	41
8	Stoneville	5327 B2RF		1345	39.4	5.0	1.06	31.2	82.2	0.5	51
9	Delta & Pine Land	515 BG/RR		1345	38.3	4.9	1.04	27.5	80.3	0.3	41
10	Stoneville	5458 B2RF		1338	35.5	5.0	1.08	29.1	81.1	0.6	41
11	Bayer Crop Sci. Exp.	2171 B2RF		1338	37.3	4.9	1.06	28.9	81.4	0.8	43
12	Croplan Genetics	3220 B2RF		1284	38.1	5.0	1.08	26.5	82.1	0.3	41
13	Delta & Pine Land	164 B2RF		1246	36.2	5.0	1.10	28.0	81.1	0.4	43
14	Delta & Pine Land	455 BG/RR		1238	34.2	4.6	1.08	28.3	81.4	0.5	41
15	Stoneville	4596 B2RF		1234	35.0	5.0	1.12	29.8	82.8	0.5	43
16	Delta & Pine Land	167 RF		1216	35.2	4.9	1.11	29.8	81.4	0.3	41
17	Stoneville	5283 RF		1212	36.1	4.9	1.07	31.9	82.1	0.3	43
18	Phytogen	485 WRF		1211	37.5	4.9	1.08	30.0	82.5	0.8	51
19	Delta & Pine Land	454 BG/RR		1206	38.2	4.5	1.01	28.5	81.3	0.9	51
20	Phytogen	425 RF		1193	34.4	5.1	1.07	29.9	83.2	0.7	51
21	Delta & Pine Land	143 B2RF		1189	36.0	4.7	1.12	28.2	80.4	0.7	41
22	Stoneville	6351 B2RF		1181	34.1	4.6	1.11	29.6	81.2	0.3	41
23	Stoneville	4678 B2RF		1180	33.5	4.7	1.09	29.2	81.8	0.7	43
24	Americot	1532 B2RF		1177	35.2	4.8	1.08	26.1	81.1	0.4	41
25	Croplan Genetics	4020 B2RF		1168	36.0	4.7	1.09	26.7	81.6	0.3	41
26	Dyna-Gro	2520 B2RF		1157	37.7	4.7	1.10	28.5	81.7	0.2	51
27	Dyna-Gro	2383 B2RF		1119	34.0	4.7	1.07	29.5	81.7	0.8	51
28	Delta & Pine Land	555 BG/RR		1095	37.5	5.0	1.02	27.3	80.0	0.4	41
29	Fibermax	960 BR	✓	1092	37.0	4.3	1.07	30.4	80.8	0.4	43
30	Phytogen	480 WR		1062	35.1	4.9	1.06	30.5	82.5	0.5	51
31	Delta & Pine Land	174 RF		1027	35.2	4.9	1.08	28.4	80.2	0.5	41
32	Fibermax Exp.	4327 B2RF		1026	34.8	4.4	1.11	29.5	81.3	0.5	43
Mean				1244	36.7	4.8	1.08	28.8	81.5	0.5	43
LSD (0.05)				148							
CV (%)				12.2							

Planted 14 May 2007. Harvest aids applied 14 Oct, 2007. Harvested 30 Oct 2007. 110-45-90 lb/ac N-P₂O₅-K₂O.

No-tilled, irrigated Loring silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT14. Lint yield, gin turnout, and fiber quality of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at the West TN Research and Education Center, Jackson, TN, listed by yield rank.

Yield Rank	Company	Variety		Lint Yield	Gin turnout	Micro-naire	Fiber Length	Fiber Strength	Uniformity	HVI Trash	Color Grade
				lb/ac	%		in.	g/tex	%	%	
1	Delta & Pine Land	444 BG/RR	✓	1275	40.9	4.0	1.07	27.2	81.4	0.5	42
2	Delta & Pine Land	174 RF		1272	43.7	4.3	1.07	26.4	80.5	0.2	41
3	Phytogen	370 WR	✓	1264	41.2	4.5	1.05	27.1	81.7	0.5	43
4	Americot	1550 B2RF		1223	42.5	4.5	1.05	25.7	80.3	0.3	43
5	Americot	1532 B2RF		1198	38.6	4.1	1.10	26.2	79.9	0.4	42
6	Stoneville	5327 B2RF		1179	40.4	4.2	1.09	28.0	81.6	0.5	43
7	Stoneville	5283 RF		1179	40.0	4.2	1.08	29.1	82.2	0.6	43
8	Delta & Pine Land	164 B2RF		1163	38.8	4.3	1.12	26.9	82.0	0.4	42
9	Phytogen	485 WRF		1161	38.9	4.4	1.08	29.1	82.5	0.9	43
10	Dyna-Gro	2383 B2RF		1153	37.3	4.2	1.06	26.9	81.2	0.6	42
11	Stoneville	5458 B2RF		1149	41.5	4.5	1.08	27.1	80.7	0.5	43
12	Delta & Pine Land	555 BG/RR		1127	40.8	4.2	1.03	26.3	79.2	0.3	42
13	Delta & Pine Land	167 RF		1111	39.2	4.3	1.09	27.0	80.3	0.4	42
14	Delta & Pine Land	432 RR	✓	1105	39.7	4.4	1.06	26.9	81.7	0.5	43
15	Delta & Pine Land	515 BG/RR		1102	41.2	4.4	1.03	25.9	79.8	0.4	42
16	Delta & Pine Land	454 BG/RR		1099	42.0	4.1	1.02	27.2	81.0	0.6	42
17	Stoneville	4596 B2RF		1098	37.7	4.5	1.13	29.9	81.9	0.4	43
18	Bayer Crop Sci. Exp.	2171 B2RF		1093	38.3	4.1	1.08	27.9	81.0	0.6	42
19	Stoneville	5599 BR	✓	1093	40.9	4.6	1.03	27.3	80.8	0.4	41
20	Croplan Genetics	4020 B2RF		1092	39.7	4.2	1.11	25.8	81.5	0.4	42
21	Stoneville	6351 B2RF		1089	38.0	4.3	1.10	27.7	80.8	0.4	42
22	Phytogen	480 WR		1087	42.4	4.4	1.09	29.4	83.3	0.6	43
23	Croplan Genetics	3220 B2RF		1082	39.8	4.4	1.10	26.9	81.6	0.3	41
24	Delta & Pine Land	161 B2RF		1077	38.1	4.3	1.16	28.4	82.5	0.5	42
25	Phytogen	425 RF		1070	37.7	4.6	1.07	28.6	81.7	0.5	43
26	Delta & Pine Land	455 BG/RR		1065	40.4	4.1	1.05	27.4	79.2	0.3	31
27	Stoneville	4678 B2RF		1053	37.2	4.5	1.09	28.0	82.2	0.8	42
28	Dyna-Gro	2520 B2RF		1050	39.1	4.1	1.08	25.6	79.5	0.3	42
29	Delta & Pine Land	143 B2RF		1017	37.9	4.0	1.10	25.9	79.1	0.4	42
30	Fibermax	960 BR	✓	1008	39.3	3.8	1.08	28.1	80.3	0.5	31
31	Fibermax Exp.	4327 B2RF		1008	39.4	4.1	1.08	26.2	79.3	0.4	42
32	Delta & Pine Land	141 B2RF		963	37.9	4.0	1.12	27.0	80.0	0.5	42
Mean				1116	39.7	4.3	1.08	27.3	80.9	0.5	41
LSD (0.05)				148							
CV (%)				10.7							

Planted 30 April 2007. Harvest aids applied 6 Sept, 2007. Harvested 24 Sept 2007. 80-45-90 lb/ac N-P₂O₅-K₂O.

No-tilled, irrigated Lexington silt loam.

Tennessee Ag. Experiment Station data of Main et al. (2007). HVI data furnished by ITC, Lubbock, TX.

Table OVT15. Final plant height of 32 entries in the 2007 Tennessee Official Variety Trial 'B' at five locations, listed by average plant height.

Company	Variety		Agricenter	Ames Pln.	Fullen Farms	Milan REC	WTREC	Average
			inch	inch	inch	inch	inch	inch
Fibermax	960 BR	✓	31	33	33	33	29	33
Fibermax Exp.	4327 B2RF		31	31	29	31	29	33
Croplan Genetics	4020 B2RF		37	36	33	37	32	35
Dyna-Gro	2520 B2RF		35	37	34	36	34	35
Stoneville	6351 B2RF		38	34	32	36	31	35
Americot	1550 B2RF		37	33	34	37	33	36
Stoneville	4678 B2RF		35	36	33	37	34	36
Americot	1532 B2RF		36	35	34	37	33	36
Stoneville	4596 B2RF		37	35	33	37	33	36
Stoneville	5458 B2RF		38	34	35	37	32	36
Croplan Genetics	3220 B2RF		38	35	35	39	34	36
Delta & Pine Land	174 RF		39	37	35	38	35	37
Delta & Pine Land	141 B2RF		40	38	36	40	34	37
Bayer Crop Sci. Exp.	2171 B2RF		40	37	35	39	34	37
Phytogen	480 WR		36	39	37	39	36	37
Stoneville	5327 B2RF		40	38	36	40	33	37
Delta & Pine Land	432 RR	✓	40	37	33	38	33	37
Delta & Pine Land	164 B2RF		41	38	37	39	35	37
Phytogen	370 WR	✓	42	40	37	41	36	38
Phytogen	485 WRF		42	39	37	40	35	38
Delta & Pine Land	161 B2RF		40	39	37	41	36	38
Delta & Pine Land	555 BG/RR		42	37	37	40	36	38
Delta & Pine Land	143 B2RF		40	36	37	40	34	38
Phytogen	425 RF		43	39	37	41	37	38
Delta & Pine Land	455 BG/RR		40	36	37	40	37	38
Dyna-Gro	2383 B2RF		42	37	35	40	35	38
Delta & Pine Land	515 BG/RR		43	38	37	40	37	38
Delta & Pine Land	444 BG/RR	✓	41	38	39	42	38	38
Stoneville	5283 RF		43	39	36	40	35	38
Delta & Pine Land	167 RF		42	40	38	41	36	39
Stoneville	5599 BR	✓	44	38	39	40	36	39
Delta & Pine Land	454 BG/RR		44	39	39	43	36	39
Mean			39	37	35	39	34	37
LSD (0.05)			3.5	2.6	3.2	2.6	2.6	2.1
CV (%)			6.5	5.1	6.4	4.7	5.4	5.9

Tennessee Ag. Experiment Station data of Main et al. (2007).

Table OVT16. Nodes above cracked boll (NACB) on dates indicated, and estimated DD60's remaining to maturity of 32 entries in the 2007 Tennessee Official Variety Trial 'B', listed in order of average maturity.

Company	Variety		Agricenter 09/18/07		Ames Pln. 09/18/07		Fullen Farms 09/07/07		Milan REC 09/20/07		WTREC 08/30/07		Average	
			NACB ¹	DD60 ²	NACB	DD60	NACB	DD60	NACB	DD60	NACB	DD60	NACB	DD60
Fibermax Exp.	4327 B2RF		0.0	0	0.2	8	0.3	15	2.0	98	1.1	53	0.9	45
Delta & Pine Land	444 BG/RR	✓	0.0	0	0.5	23	0.3	15	1.9	93	1.5	75	1.0	48
Dyna-Gro	2383 B2RF		0.0	0	1.4	68	0.3	15	2.1	105	1.5	73	1.0	52
Americot	1532 B2RF		0.2	8	0.3	15	0.3	15	2.1	103	2.0	100	1.1	55
Delta & Pine Land	432 RR	✓	0.1	5	0.9	43	0.4	20	2.1	105	0.7	35	1.1	57
Phytogen	485 WRF		0.0	0	1.0	50	0.6	28	2.0	98	2.3	115	1.2	60
Delta & Pine Land	454 BG/RR		0.0	0	0.7	35	0.3	13	3.5	175	0.6	28	1.2	62
Fibermax	960 BR	✓	0.0	0	1.2	58	1.4	68	2.4	120	2.2	110	1.3	63
Croplan Genetics	4020 B2RF		0.0	0	0.4	18	0.6	30	2.4	120	1.8	90	1.3	63
Dyna-Gro	2520 B2RF		0.0	0	0.6	30	0.4	20	2.3	113	2.5	125	1.3	64
Phytogen	480 WR		0.2	10	1.3	63	0.9	43	2.5	123	2.1	105	1.3	65
Phytogen	370 WR	✓	0.0	0	1.0	50	0.6	28	2.7	133	1.9	93	1.3	65
Croplan Genetics	3220 B2RF		0.1	3	0.7	35	1.5	73	3.2	160	1.7	85	1.3	66
Delta & Pine Land	515 BG/RR		0.2	8	1.3	65	0.2	10	3.4	170	1.7	85	1.3	66
Phytogen	425 RF		0.0	0	0.8	38	0.4	18	2.6	130	1.8	90	1.4	68
Stoneville	4678 B2RF		0.0	0	1.0	48	1.4	68	3.5	173	2.3	113	1.4	68
Delta & Pine Land	164 B2RF		0.2	10	1.7	83	1.1	55	3.3	165	2.6	128	1.4	69
Americot	1550 B2RF		0.0	0	1.1	53	0.8	40	2.5	125	2.0	98	1.4	70
Stoneville	5283 RF		0.2	10	1.7	83	0.7	35	2.6	130	2.5	125	1.4	71
Delta & Pine Land	455 BG/RR		0.1	5	0.4	18	1.0	48	3.2	158	2.0	100	1.4	71
Stoneville	5327 B2RF		0.0	0	0.6	30	1.0	48	3.4	170	2.5	123	1.5	73
Delta & Pine Land	143 B2RF		0.1	5	0.9	45	1.0	48	3.4	170	2.0	100	1.5	73
Stoneville	6351 B2RF		0.0	0	0.5	25	1.1	53	3.2	158	2.4	118	1.6	78
Delta & Pine Land	167 RF		0.1	3	1.4	70	1.1	55	4.6	228	1.8	88	1.6	80
Delta & Pine Land	141 B2RF		0.0	0	1.0	50	1.6	80	4.9	243	2.6	128	1.6	81
Bayer Crop Sci. Exp.	2171 B2RF		0.0	0	1.2	58	0.2	10	3.5	175	2.9	145	1.7	83
Stoneville	4596 B2RF		0.4	18	1.3	63	1.1	53	3.6	180	1.9	93	1.7	84
Stoneville	5599 BR	✓	0.1	5	1.4	68	1.7	83	4.3	215	2.6	130	1.7	87
Delta & Pine Land	174 RF		0.2	8	0.9	45	0.5	25	3.5	175	2.7	135	1.7	87
Stoneville	5458 B2RF		0.1	5	0.6	28	1.3	63	3.8	190	2.7	135	1.8	90
Delta & Pine Land	555 BG/RR		0.1	5	1.4	68	1.8	88	4.5	225	3.1	153	1.8	90
Delta & Pine Land	161 B2RF		0.0	0	1.4	68	1.6	80	4.5	225	2.8	140	1.8	92
Mean			0	3	1	47	1	42	3	155	2	103	1	70
LSD (0.05)			NS	NS	NS	NS	1.0	41.7	1.4	68.0	NS	NS	NS	NS
CV (%)			27.8	27.8	71.9	71.9	71.4	71.4	31.6	31.6	53.7	53.7	38.2	38.2

¹NACB = nodes above highest 1st-position cracked boll to the highest harvestable boll.

²DD60 = degree-days, base 60F. DD60 to maturity = NACB x (50 DD60/node) to open the highest harvestable boll.

Tennessee Ag. Experiment Station data of Main et al. (2007).

Table OVT17. Average node of first fruiting branch of 32 entries in the 2007 Tennessee Official Variety Trial 'A and B' at the West TN Research and Education Center, Jackson, TN, listed by yield rank.

Company	Variety	WTREC	Company	Variety	WTREC
Node No.			Node No.		
Stoneville	4554 B2RF	4.7	Croplan Genetics	4020 B2RF	5.0
Croplan Genetics	3020 B2RF	5.0	Stoneville	5283 RF	5.1
Delta & Pine Land	445 BG/RR	5.0	Stoneville	6351 B2RF	5.3
Stoneville	4498 B2RF	5.0	Delta & Pine Land	444 BG/RR ✓	5.3
Dyna-Gro	2490 B2RF	5.1	Americot	1550 B2RF	5.4
Delta & Pine Land	393 RR	5.1	Croplan Genetics	3220 B2RF	5.4
Delta & Pine Land	434 RR	5.1	Dyna-Gro	2520 B2RF	5.4
Dyna-Gro	2100 B2RF	5.2	Stoneville	4596 B2RF	5.4
Dyna-Gro	2242 B2RF	5.2	Americot	1532 B2RF	5.5
Delta & Pine Land	444 BG/RR ✓	5.2	Stoneville	5599 BR ✓	5.5
Delta & Pine Land	121 RF	5.2	Stoneville	4678 B2RF	5.5
Stoneville	5242 BR	5.2	Stoneville	5327 B2RF	5.5
Americot	1664 B2RF	5.3	Stoneville	5458 B2RF	5.5
Croplan Genetics	3035 RF	5.3	Delta & Pine Land	174 RF	5.5
Stoneville	4664 RF	5.3	Phytogen	370 WR ✓	5.5
Delta & Pine Land	432 RR ✓	5.3	Delta & Pine Land	141 B2RF	5.6
Delta & Pine Land	117 B2RF	5.4	Phytogen	425 RF	5.7
Phytogen	370 WR ✓	5.4	Delta & Pine Land	454 BG/RR	5.7
Stoneville	5599 BR ✓	5.4	Delta & Pine Land	432 RR ✓	5.7
Croplan Genetics	3520 B2RF	5.4	Phytogen	480 WR	5.8
Americot	1504 B2RF	5.5	Dyna-Gro	2383 B2RF	5.8
Phytogen	310 R	5.5	Delta & Pine Land	161 B2RF	5.8
Fibermax	1740 B2RF	5.5	Phytogen	485 WRF	6.0
Phytogen	315 RF	5.5	Delta & Pine Land	143 B2RF	6.0
Phytogen	375 WRF	5.6	Bayer Crop Sci.Exp.	2171 B2RF	6.1
Stoneville	4357 B2RF	5.6	Delta & Pine Land	515 BG/RR	6.2
Stoneville	4427 B2RF	5.9	Delta & Pine Land	164 B2RF	6.2
Fibermax	960 BR ✓	6.0	Delta & Pine Land	455 BG/RR	6.3
Fibermax	955 LLB2	6.1	Delta & Pine Land	167 RF	6.3
Fibermax	9060 F	6.1	Fibermax	960 BR ✓	6.3
Fibermax	1735 LLB2	6.1	Fibermax Exp.	4327 B2RF	6.4
Fibermax	1600 LL	6.1	Delta & Pine Land	555 BG/RR	6.7
Mean		5			6
LSD (0.05)		0.5			0.4
CV (%)		6.4			5.2

Tennessee Ag. Experiment Station data of Main et al. (2007).

Table OVT18. Lint yield, gin turnout, and fiber quality of 23 entries in the 2005, 2006, and 2007 Tennessee Official Variety Trials averaged across 3 years and five locations, listed by yield rank.

Yield				
Rank	Company	Variety	Lint Yield	Gin turnout
			lb/ac	%
1	Stoneville	5242 BR	1323	38.5
2	Stoneville	4554 B2RF	1319	36.6
3	Phytogen	310 R	1297	39.4
4	Delta & Pine Land	444 BG/RR ✓	1270	39.2
5	Delta & Pine Land	432 RR ✓	1267	37.3
6	Phytogen	370 WR ✓	1253	38.2
7	Delta & Pine Land	445 BG/RR	1218	39.2
8	Delta & Pine Land	117 B2RF	1211	37.9
9	Stoneville	4357 B2RF	1195	36.5
10	Delta & Pine Land	393	1194	38.2
11	Fibermex	960 BR ✓	1174	37.4
12	Delta & Pine Land	455 BG/RR	1172	39.1
13	Phytogen	425 RF	1166	35.6
14	Delta & Pine Land	454 BG/RR	1165	39.2
15	Croplan Genetics	4020 B2RF	1161	36.0
16	Dyna-Gro	2520 B2RF	1160	36.2
17	Phytogen	485 WRF	1157	36.5
18	Delta & Pine Land	434 RR	1141	39.7
19	Croplan Genetics	3020 B2RF	1140	35.1
20	Delta & Pine Land	555 BG/RR	1136	38.1
21	Croplan Genetics	3520 B2RF	1134	35.3
22	Dyna-Gro	2100 B2RF	1131	35.3
23	Dyna-Gro	2242 B2RF	1129	35.1
Mean			1196	37.4
LSD (0.05)			119	0.8
CV (%)			29.7	7.7

Tennessee Ag. Experiment Station data of Main et al. (2007).

STAGE 4 ADVANCED STRAINS TEST

C. O. Gwathmey and C. E. Michaud
West Tennessee Research & Education Center
The University of Tennessee
Jackson, TN

Three experimental cotton strains and 13 commercial cultivars were tested in a Stage 4 Advanced Strains Test at the West Tennessee Research and Education Center in Jackson. Planting seed was furnished by Delta and Pine Land Co. There were 12 entries with Roundup-Ready Flex (F or RF) genes and four entries with Roundup Ready (RR) gene technology. Six entries had Bollgard II (B2 or D) genes and three entries had Bollgard (BG) gene technology.

All entries were planted on 8 May 2007 in 2-row plots arranged in a RCB design with 4 replications. A systemic insecticide and fungicide were applied in-furrow at planting. All plots received Roundup-Ready weed management and conventional insect pest control. Soil was an irrigated, no-tilled Loring-Calloway silt loam fertilized with 80-30-75 lb/ac N-P₂O₅-K₂O, per UT Extension recommendations for cotton fertilization. In addition, 18 lb S/ac were applied with the potash as K₂SO₄.

Seeding rate was adjusted for the germination of each seed lot, and all entries produced satisfactory stands. Plant populations averaged 47,500/acre. Supplemental irrigation was initiated 17 DAP by overhead sprinkler boom, and total of 3.6 inches of irrigation was applied by 97 DAP. The rainfall deficit increased by 5.8 inches during this time, relative to the long-term average, so irrigation supplied only a small fraction of crop water requirement during July and August. A total of 28 oz/ac of mepiquat-type PGR product was applied in two applications at 62 and 72 DAP. A defoliant and boll opener were applied at 120 and 127 DAP, when the latest maturing entry was >50% open, in preparation for once-over harvest. A total of 2535 DD60s accumulated between planting on 8 May and harvest on 20 September; 400 DD60s more than the long-term average for this period.

Seedcotton from each plot was spindle-picked into a separate bag and weighed. All seedcotton harvested from each plot was shipped to D&PL for ginning and analysis of fiber quality. Statistical analysis was performed on the lint yield, gin turnout and fiber data furnished by D&PL. In keeping with the research agreement, results are reported here only for experimental strains that were advanced by D&PL, as

well as all the commercial cultivars.

Table 1 presents lint yield, gin turnout, and fiber data for 14 entries in the 2007 Stage 4 test at Jackson. Lint yields were statistically equivalent for the four top-yielding entries (DP444BG/RR, ST4664RF, DP121RF, and ST4554B2RF). The widely planted cultivar, DP444BG/RR, also posted the highest gin turnout. As a group, the BG/RR entries had higher gin turnout (37.2%) than the B2RF entries (34.3%), contributing to the relative lint yield performance of these two groups.

Micronaire values were relatively low, and the average micronaire of DP444BG/RR, DP143B2RF and DP147RF fell in the low discount range of the USDA-AMS schedule of premiums and discounts. Fiber strength and upper-half mean length were minimally adequate for most entries, although short staple and low strength were recorded for DP555BG/RR. Length uniformity of DP555BG/RR and DP143B2RF fell in the discount price range. The table also shows the maximum and minimum color grades of the four samples of each entry. Color grades of most samples were 32, 41, or better, indicating little discoloration of the lint. However, the data do not provide an accurate estimate of classer's leaf grade, so loan values are not reported.

Table 1. Lint yield, gin turnout, and fiber properties of 14 varieties tested in the 2007 Stage 4 advanced strains test at Jackson TN, listed by yield rank[†].

Yield Rank	Entry	Lint Yield	Gin Turnout	Micro-naire	Staple Length	Fiber Strength	Uni-formity	Color Grade	
		lb/ac	%		32nds	g/tex	%	min [‡]	max [‡]
1	DP 444 BG/RR	1393	38.6	3.3	34.2	26.7	80.4	31	42
2	ST 4664 RF	1263	36.8	3.7	33.9	28.2	80.6	32	42
3	DP 121 RF	1216	37.6	3.9	34.6	27.6	81.1	32	42
4	ST 4554 B2RF	1200	35.0	3.7	34.4	29.0	81.0	32	42
5	DP 174 RF	1173	38.0	3.7	34.8	26.3	79.9	32	32
6	DP 432 RR	1147	35.6	3.5	34.2	27.0	81.0	32	32
7	DP 445 BG/RR	1131	36.4	3.5	34.7	27.9	81.2	32	32
8	DP 555 BG/RR	1047	36.6	3.6	33.2	25.1	77.9	31	41
9	DPLX06T201F	1039	35.8	3.5	35.5	27.7	79.8	31	32
10	DP 161 B2RF	982	34.0	3.6	36.1	26.8	79.5	31	41
11	DP 117 B2RF	970	36.2	3.5	35.0	30.0	81.4	32	42
12	DP 147 RF	954	34.3	3.2	35.8	26.5	78.9	31	42
13	DP 143 B2RF	918	33.7	3.2	36.3	26.1	77.9	32	41
14	DP 141 B2RF	824	32.9	3.5	35.9	27.2	79.2	31	52
Mean		1090	35.8	3.5	34.9	27.3	80.0		
LSD (0.05)		206	1.7	0.2	0.7	1.7	1.1		
CV (%)		13.5	3.3	4.7	1.4	4.3	1.0		

Planted 8 May 2007. Harvest-aids applied 5 Sept and 12 Sept 2007. Harvested 20 Sept 2007.

Soil: No-tilled, irrigated Loring-Calloway silt loam. Fertilizer: 80-30-75 lb/ac N-P₂O₅-K₂O + 18S.

[†] Raw data from Delta and Pine Land Co. Statistical analysis by Tennessee Agricultural Experiment Station.

[‡] Minimum and maximum color grade values of four samples tested.

COUNTY STANDARD TEST DEMONSTRATIONS

C. Main, G. Miles, T.D. Bush, and M. B. Ross
West Tennessee Research and Education Center
and Dyer County Extension
The University of Tennessee

County Standard Test demonstrations were conducted in 2007 to evaluate commercial cultivar performance in multiple large plot environments. County standard testing included Roundup Ready and Roundup Ready Flex cultivars. County standard tests of early season cultivars were planted in 15 locations with each location containing 12 cultivars. County standard tests of early-mid season cultivars were planted in 15 locations with each location containing 12 cultivars. County standard tests of Liberty Link cultivars were planted in 6 locations with each location containing 5 cultivars. Each variety was planted in only one plot at each location and was maintained using the individual

grower's production practices. Cultivars were defoliated for a once-over harvest and harvested using spindle pickers. Seedcotton weights were determined using a boll buggy equipped with load cells. Seedcotton samples were ginned similarly to small-plot samples, as described previously. Lint samples were analyzed by HVI and hand classing methods at the USDA Cotton Classing Office in Memphis, TN. Loan values were calculated by the Cotton Loan Valuation Model from Cotton Inc. County standard test data were analyzed using Proc MIXED with locations as replications.

Table CST1. Results of early season cotton variety test, 15 Locations, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	Phytogen	310 R	39.2	771	3.8	1.04	26.3	80.3	42-1	4	48.76
2	Delta & Pine Land	444 BG/RR	39.0	769	3.5	1.06	26.8	79.5	42-1	4	49.53
3	Phytogen	370 WR	38.6	740	3.9	1.04	26.5	80.4	43-1	4	48.15
4	Delta & Pine Land	445 BG/RR	39.5	725	3.7	1.07	29.2	80.1	42-1	4	51.35
5	Stoneville	4554 B2RF	36.6	712	3.8	1.07	27.5	80.9	43-1	4	49.05
6	Stoneville	4427 B2RF	37.3	705	3.6	1.06	26.1	79.5	43-1	5	47.08
7	Croplan Genetics	3520 B2RF	36.4	644	3.4	1.08	24.2	79.7	42-2	4	46.16
8	Americot	1532 B2RF	36.3	641	3.5	1.08	24.2	80.2	42-1	4	47.32
9	Dyna-Gro	2242 B2RF	35.7	635	3.4	1.08	24.1	79.7	42-1	4	46.14
10	Dyna-Gro	2100 B2RF	34.7	604	3.2	1.05	24.0	79.0	43-1	4	45.84
11	Croplan Genetics	4020 B2RF	35.4	572	3.5	1.08	24.1	79.7	42-1	4	47.14
12	Delta & Pine Land	117 B2RF	37.9	560	3.6	1.08	27.3	80.5	42-1	5	44.26
Mean			37.2	673	3.6	1.07	25.9	80.0		4	47.57
LSD (0.05)			1.4	56	0.1	0.01	0.9	0.6		0.38	2.37
CV			7.06	35.08	12.10	3.43	9.31	1.40		19.20	10.03

Table CST2. Results of early-mid season cotton variety test, 15 locations, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	Stoneville	5327 B2RF	36.9	728	3.8	1.06	28.3	80.4	32-1	5	48.20
2	Stoneville	5283 RF	37.9	726	3.8	1.07	28.3	80.3	32-2	5	48.06
3	Delta & Pine Land	454 BG/RR	38.9	723	3.5	1.02	25.8	79.6	42-1	5	43.66
4	Dyna-Gro	2490 B2RF	35.8	689	3.2	1.04	24.7	79.6	42-1	5	44.76
5	Delta & Pine Land	164 B2RF	36.6	676	3.7	1.09	26.4	79.8	42-1	4	50.67
6	Dyna-Gro	2520 B2RF	36.7	676	3.5	1.08	24.5	79.3	43-2	4	48.14
7	Croplan Genetics	3020 B2RF	34.5	670	3.3	1.05	24.7	80.0	42-1	4	46.51
8	Delta & Pine Land	455 BG/RR	38.2	661	3.7	1.08	26.2	80.5	43-1	4	48.91
9	Croplan Genetics	3220 B2RF	37.0	658	3.5	1.05	27.8	78.9	42-2	4	47.62
10	Phytogen	425 RF	36.3	639	3.9	1.07	27.9	81.1	41-2	5	44.94
11	Phytogen	485 WRF	36.3	626	3.9	1.06	27.2	80.5	41-2	5	42.67
12	Delta & Pine Land	143 B2RF	34.6	584	3.5	1.11	26.5	78.9	42-1	5	45.03
Mean			36.6	671	3.6	1.07	26.5	79.9		5	46.45
LSD (0.05)			1.4	61	0.2	0.01	0.9	0.6		0.45	3.88
CV			7.21	35.52	12.88	3.96	9.17	1.55		24.72	14.60

Table CST3. Results of Liberty Link cotton variety test, 6 locations, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	FiberMax	1600 LL	34.0	645	3.7	1.11	27.8	80.6	41-2	4	51.43
2	FiberMax	1735 LLB2	29.9	586	3.4	1.11	29.0	80.3	41-1	4	49.58
3	FiberMax	955 LL	29.7	527	3.6	1.07	30.8	80.9	41-1	4	50.96
4	FiberMax	958 LL	30.4	500	3.7	1.10	29.9	80.7	42-1	4	52.90
5	FiberMax	966 LL	30.1	469	3.7	1.09	30.2	80.8	41-1	4	52.75
Mean			30.8	545	3.6	1.10	29.5	80.7		4	51.55
LSD (0.05)			3.3	108	0.1	0.22	2.3	0.9		0.39	1.92
CV			11.16	36.46	17.49	3.72	9.36	0.97		16.57	7.24

Table CST4. Results of early season cotton variety test, Carroll County, 2006

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	444 BG/RR	37.9	669	3.0	1.07	25.2	80.3	32-2	5	44.90
2	Americot	B2RF	34.9	588	3.5	1.06	22.9	77.6	42-1	5	46.05
3	Phytogen	310 R	37.5	574	3.5	0.99	22.4	79.2	43-1	5	42.50
4	Phytogen	370 WR	37.4	564	3.8	0.99	24.9	78.6	43-1	4	44.65
5	Stoneville	4554 B2RF	34.4	557	3.4	1.05	27.1	79.4	43-1	5	43.60
6	Delta & Pine Land	445 BG/RR	36.2	550	3.3	1.06	26.3	80.1	32-1	4	49.40
7	Stoneville	4427 B2RF	34.6	516	3.3	1.04	23.8	77.9	43-2	5	42.20
8	Dyna-Gro	2242 B2RF	31.5	410	3.0	1.05	21.2	77.9	43-1	5	39.25
9	Dyna-Gro	2100 B2RF	31.6	393	2.9	1.04	22.9	81.4	43-1	4	38.60
10	Croplan Genetics	3520 B2RF	34.6	362	3.1	1.04	21.0	78.3	43-1	5	39.25
11	Delta & Pine Land	117 B2RF	35.7	348	3.4	1.07	25.5	78.5	43-2	6	42.45
12	Croplan Genetics	4020 B2RF	31.7	308	3.1	1.02	21.3	76.7	43-2	5	39.15
Mean			34.8	487	3.3	1.04	23.7	78.8		5	42.67

Agent	Steve Burgess	Soil Type	Dexter Silt Loam
Producer	David Renfro	Tillage	No-Till
Planting Date	5/1/2007	Previous Crop	Corn
Defoliation Date	9/30/2007	Fertilizer	40-100-90 + 65 N side dress
Harvest Date	10/15/2007	Row Spacing	30"

Table CST5. Results of early-mid season cotton variety test, Carroll County, 2006

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	454 BG/RR	39.3	778	3.4	1.02	24.6	79.6	42-1	5	45.25
2	Delta & Pine Land	455 BG/RR	36.8	658	3.3	1.02	25.8	78.7	32-1	3	48.25
3	Delta & Pine Land	164 B2RF	33.1	646	3.6	1.06	24.3	79.7	32-2	3	51.00
4	Stoneville	5283 RF	39.7	633	3.8	1.04	22.9	81.4	42-1	4	48.00
5	Stoneville	5327 B2RF	35.6	629	3.7	1.05	27.4	79.6	32-2	4	51.50
6	Croplan Genetics	3020 B2RF	34.6	620	3.5	1.07	25.9	79.8	32-2	4	51.30
7	Delta & Pine Land	143 B2RF	34.1	577	3.3	1.09	25.1	79.0	42-1	5	45.75
8	Dyna-Gro	2490 B2RF	34.8	547	3.2	1.02	24.2	79.5	32-2	5	43.55
9	Dyna-Gro	2520 B2RF	34.9	536	3.4	1.06	22.9	78.6	32-2	3	48.25
10	Phytogen	425 RF	34.7	529	3.8	1.03	24.8	80.1	43-1	4	46.50
11	Phytogen	485WRF	34.0	477	3.6	1.05	24.1	78.1	43-2	5	44.10
12	Croplan Genetics	3220 B2RF	34.0	410	3.2	1.06	22.4	80.1	42-1	4	44.45
Mean			35.5	587	3.5	1.05	24.5	79.5		4	47.51

Agent	Steve Burgess	Soil Type	Dexter Silt Loam
Producer	David Renfro	Tillage	No-Till
Planting Date	5/1/2007	Previous Crop	Corn
Defoliation Date	9/30/2007	Fertilizer	40-100-90 + 65 N side dress
Harvest Date	10/15/2007	Row Spacing	30"

Table CST6. Results of early season cotton variety test, Crockett County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	444 BG/RR	39.0	878	3.4	1.09	28.3	80.4	43-1	3	46.30
2	Phytogen	310 R	39.4	863	3.8	1.04	26.4	80.8	43-1	4	47.30
3	Phytogen	370 WR	36.5	853	3.4	1.05	25.3	80.9	32-2	4	48.60
4	Delta & Pine Land	445 BG/RR	38.4	773	3.7	1.09	30.3	81.5	32-2	4	53.00
5	Stoneville	4427 B2RF	36.7	715	3.4	1.07	25.6	81.1	42-1	5	46.40
6	Stoneville	4554 B2RF	36.4	695	3.5	1.06	27.5	81.2	43-1	4	47.45
7	Americot	1532 B2RF	34.4	662	2.8	1.12	23.9	79.9	43-1	4	39.80
8	Delta & Pine Land	117 B2RF	37.7	604	3.8	1.12	29.0	80.2	43-1	5	46.70
9	Croplan Genetics	3520 B2RF	35.7	594	3.4	1.10	24.1	79.5	43-2	4	44.70
10	Dyna-Gro	2242 B2RF	33.9	531	3.1	1.08	25.0	79.5	53-1	5	41.35
11	Dyna-Gro	2100 B2RF	31.9	502	3.0	1.03	23.9	79.4	32-2	3	45.25
12	Croplan Genetics	4020 B2RF	36.1	502	3.3	1.11	24.3	78.8	43-1	3	44.65
Mean			36.3	681	3.4	1.08	26.1	80.3		4	45.96

Agent	Richard Buntin	Soil Type	Gernada Silt Loam
Producer	Dwayne Dove	Tillage	No-Till
Planting Date	5/1/2007	Previous Crop	Cotton
Defoliation Date	9/3/2007	Fertilizer	100-50-90
Harvest Date	9/11/2007	Row Spacing	38"

Table CST7. Results of early-mid season cotton variety test, Crockett County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	5327 B2RF	37.3	983	3.8	1.05	29.0	80.8	43-1	5	46.30
2	Stoneville	5283 RF	37.7	924	4.1	1.09	31.2	81.6	42-2	5	49.70
3	Croplan Genetics	3220 B2RF	38.0	878	4.3	1.08	28.5	81.9	32-2	4	52.55
4	Phytogen	425 RF	36.0	802	4.0	1.05	30.3	81.8	52-1	7	44.60
5	Phytogen	485WRF	35.0	770	4.2	1.08	30.1	81.7	52-1	8	12.95
6	Dyna-Gro	2490 B2RF	33.5	750	3.3	1.03	26.4	80.6	42-2	6	44.55
7	Dyna-Gro	2520 B2RF	35.5	722	3.5	1.07	24.8	79.3	42-2	5	46.90
8	Croplan Genetics	3020 B2RF	32.2	616	3.3	1.03	24.5	79.6	42-1	4	46.65
9	Delta & Pine Land	454 BG/RR	37.7	602	3.6	0.98	25.8	78.5	42-2	7	43.35
10	Delta & Pine Land	164 B2RF	34.7	583	3.7	1.07	25.8	80.1	42-1	4	50.25
11	Delta & Pine Land	455 BG/RR	39.4	578	3.6	1.01	25.7	78.9	43-1	5	44.50
12	Delta & Pine Land	143 B2RF	33.9	451	3.4	1.06	25.1	78.6	42-2	6	43.45
Mean			35.9	722	3.7	1.05	27.3	80.3		6	43.59

Agent	Richard Buntin	Soil Type	Adler Silt Loam
Producer	Bubba Fincher	Tillage	No-Till
Planting Date	5/8/2007	Previous Crop	Cotton
Defoliation Date	9/14/2007	Fertilizer	100-50-90-15S-32N-1B
Harvest Date	9/21/2007	Row Spacing	38"

Table CST8. Results of Liberty Link cotton variety test, Crockett County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI	Leaf	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)	Color	Grade	Value (¢/lb.)
1	FiberMax	1735 LLB2	32.0	650	4.7	1.08	32.4	82.2	31-2	4	55.55
2	FiberMax	955 LLB2	30.4	620	4.8	1.10	29.4	81.6	41-3	4	53.90
3	FiberMax	1600 LL	36.0	578	4.3	1.06	30.1	80.6	41-1	4	52.75
4	FiberMax	958 LL	32.5	569	4.3	1.07	28.2	80.5	41-4	5	50.25
5	FiberMax	966 LL	32.0	352	4.5	1.03	29.5	80.2	41-3	4	50.85
Mean			32.6	554	4.5	1.07	29.9	81.0		4	51.94

Agent	Richard Buntin	Soil Type	Adler Silt Loam
Producer	Kevin Earnhart	Tillage	No-Till
Planting Date	5/12/2007	Previous Crop	Cotton
Defoliation Date	9/27/2007	Fertilizer	90-50-120-24S-0.5B
Harvest Date	10/8/2007	Row Spacing	38"

Table CST9. Results of early season cotton variety test, Dyer County, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	Phytogen	310 R	38.4	1550	4.5	1.08	31.4	82.0	41-3	4	54.35
2	Croplan Genetics	3520 B2RF	36.3	1484	4.3	1.11	26.4	81.4	42-1	4	51.35
3	Stoneville	4554 B2RF	35.8	1449	4.7	1.11	29.7	80.8	42-1	4	51.60
4	Delta & Pine Land	445 BG/RR	39.8	1436	4.2	1.10	31.9	82.1	31-4	3	57.95
5	Phytogen	370 WR	36.9	1403	4.5	1.11	32.7	82.6	42-1	5	49.85
6	Stoneville	4427 B2RF	38.1	1373	3.9	1.10	28.3	80.4	41-3	5	51.50
7	Dyna-Gro	2242 B2RF	35.5	1361	3.7	1.13	25.5	79.6	42-1	4	51.55
8	Croplan Genetics	4020 B2RF	35.6	1320	4.3	1.14	27.6	81.2	32-2	4	53.05
9	Americot	1532 B2RF	34.8	1241	3.9	1.13	26.2	81.1	42-1	4	51.55
10	Delta & Pine Land	117 B2RF	35.6	1210	3.7	1.13	30.1	79.3	42-1	5	49.00
11	Dyna-Gro	2100 B2RF	34.3	1190	3.9	1.09	26.2	81.8	41-3	4	54.10
12	Delta & Pine Land	444 BG/RR	35.7	1139	4.1	1.10	29.3	82.3	42-1	4	51.15
Mean			36.4	1346	4.1	1.11	28.8	81.2		4	52.25

Agent	Tim Campbell	Soil Type	Falaya Silt Loam
Producer	Davis Bros.	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Corn
Defoliation Date	9/26/2007	Fertilizer	120-30-90
Harvest Date	10/12/2007	Row Spacing	38"

Table CST10. Results of early-mid season cotton variety test, Dyer County, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	Stoneville	5327 B2RF	38.1	1509	4.5	1.11	30.2	81.9	42-1	5	49.40
2	Dyna-Gro	2490 B2RF	34.0	1403	3.5	1.08	27.0	80.7	41-3	5	51.30
3	Stoneville	5283 RF	34.0	1339	4.2	1.13	30.8	81.9	42-1	5	49.80
4	Dyna-Gro	2520 B2RF	35.8	1328	4.1	1.12	27.2	79.9	41-3	3	55.40
5	Croplan Genetics	3020 B2RF	35.7	1316	4.4	1.08	25.6	80.4	42-1	3	51.45
6	Phytogen	485WRF	36.8	1286	4.5	1.13	28.6	81.9	42-2	5	49.15
7	Delta & Pine Land	164 B2RF	36.8	1277	4.3	1.16	30.8	83.0	41-3	4	55.25
8	Croplan Genetics	3220 B2RF	35.4	1263	4.2	1.15	30.9	81.9	32-2	3	54.65
9	Delta & Pine Land	455 BG/RR	39.7	1256	4.1	1.05	31.2	79.9	32-2	4	51.95
10	Delta & Pine Land	143 B2RF	34.7	1197	3.7	1.15	27.0	79.0	42-1	5	48.75
11	Phytogen	425 RF	33.0	1141	4.3	1.15	32.5	82.8	42-2	5	49.85
12	Delta & Pine Land	454 BG/RR	36.1	1138	4.0	1.08	29.2	81.1	41-3	5	51.50
Mean			35.8	1288	4.2	1.12	29.3	81.2		4	51.54

Agent	Tim Campbell	Soil Type	Falaya Silt Loam
Producer	Davis Bros.	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Corn
Defoliation Date	9/26/2007	Fertilizer	120-30-90
Harvest Date	10/12/2007	Row Spacing	38"

Table CST11. Results of Liberty Link cotton variety test, Dyer County, 2007

Rank	Company	Variety	Gin			Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Lint Yield (lb./acre)	Mic						
1	FiberMax	955 LLB2	32.4	633	4.3	1.08	29.9	80.6	42-1	4	51.20
2	FiberMax	1600 LL	34.1	619	4.3	1.06	27.8	81.3	41-2	4	52.50
3	FiberMax	958 LL	35.6	597	4.0	1.09	27.9	80.1	41-3	4	54.10
4	FiberMax	966 LL	34.8	589	4.2	1.05	32.7	81.9	41-3	4	53.15
5	FiberMax	1735 LLB2	32.0	484	4.1	1.05	27.8	79.7	41-3	4	52.70
Mean			33.8	584	4.2	1.07	29.2	80.7		4	53.11

Agent	Tim Campbell	Soil Type	Routon Silt Loam
Producer	Malcom Birchfield	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	10/5/2007	Fertilizer	90-30-90
Harvest Date	10/17/2007	Row Spacing	38"

Table CST12. Results of early season cotton variety test, Fayette County, 2007

Rank	Company	Variety	Gin		Lint Yield (lb./acre)	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)									
1	Delta & Pine Land	117 B2RF	41.5		754	3.7	1.00	23.1	79.3	42-2	5	44.85
2	Phytogen	370 WR	44.0		733	4.3	1.04	26.9	80.4	42-1	4	49.35
3	Stoneville	4554 B2RF	40.5		721	3.9	1.03	25.6	80.4	43-2	4	47.30
4	Delta & Pine Land	444 BG/RR	42.1		698	3.9	1.03	26.4	80.5	42-1	4	49.55
5	Americot	1532 B2RF	41.1		696	4.1	1.04	25.3	80.9	42-2	5	47.35
6	Phytogen	310 R	42.8		689	4.1	1.02	26.9	80.5	42-1	4	49.55
7	Croplan Genetics	4020 B2RF	39.3		672	3.9	1.02	27.7	80.1	42-1	5	48.15
8	Delta & Pine Land	445 BG/RR	42.1		667	4.2	1.05	28.4	81.8	42-1	4	50.25
9	Stoneville	4427 B2RF	39.1		664	3.8	1.05	24.6	79.9	42-2	5	47.70
10	Dyna-Gro	2242 B2RF	39.7		650	3.7	1.06	24.8	80.0	42-1	5	47.70
11	Croplan Genetics	3520 B2RF	39.7		649	3.7	1.01	24.2	79.0	42-1	4	46.35
12	Dyna-Gro	2100 B2RF	37.6		604	3.6	1.04	24.0	78.9	42-1	4	47.45
Mean			40.8		683	3.9	1.03	25.7	80.1		4	47.96

Agent	Jeff Via	Soil Type	Memphis Silt Loam
Producer	McNabb Bros.	Tillage	Conventional
Planting Date	5/11/2007	Previous Crop	Cotton
Defoliation Date	8/31/2007	Fertilizer	90-60-80
Harvest Date	9/19/2007	Row Spacing	38"

Table CST13. Results of early-mid season cotton variety test, Fayette County, 2007

Rank	Company	Variety	Gin		Lint Yield (lb./acre)	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)									
1	Dyna-Gro	2520 B2RF	43.2		735	4.2	1.05	25.2	80.6	42-1	4	49.45
2	Delta & Pine Land	454 BG/RR	41.3		719	4.1	0.98	25.7	79.9	42-1	4	48.15
3	Delta & Pine Land	164 B2RF	39.5		670	4.0	1.05	25.7	80.0	42-1	5	48.50
4	Dyna-Gro	2490 B2RF	40.2		666	3.6	1.05	24.2	79.3	42-1	5	46.40
5	Delta & Pine Land	455 BG/RR	41.5		653	3.9	1.00	25.6	78.8	32-2	4	48.30
6	Stoneville	5283 RF	38.6		645	3.6	1.02	25.7	79.5	42-1	4	49.35
7	Stoneville	5327 B2RF	37.9		627	3.7	1.03	26.2	79.6	42-1	5	48.15
8	Croplan Genetics	3220 B2RF	39.3		626	4.1	1.02	25.8	81.8	42-2	4	49.55
9	Phytogen	425 RF	39.3		624	4.1	1.01	26.2	80.6	43-2	5	45.15
10	Phytogen	485WRF	38.6		614	4.0	1.03	26.9	80.0	52-1	5	47.15
11	Croplan Genetics	3020 B2RF	38.9		608	3.7	1.06	23.0	79.4	42-1	4	48.10
12	Delta & Pine Land	143 B2RF	38.1		595	3.7	1.07	24.6	79.5	42-1	4	49.45
Mean			39.7		649	3.9	1.03	25.4	79.9		4	48.02

Agent	Jeff Via	Soil Type	Memphis Silt Loam
Producer	McNabb Bros.	Tillage	Conventional
Planting Date	5/11/2007	Previous Crop	Cotton
Defoliation Date	8/31/2007	Fertilizer	90-60-80
Harvest Date	9/19/2007	Row Spacing	38"

Table CST14. Results of early season cotton variety test, Fayette County, 2007

Rank	Company	Variety	Gin		Lint Yield (lb./acre)	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)									
1	Phytogen	370 WR	42.3		937	4.1	1.07	29.9	81.6	32-2	4	51.75
2	Delta & Pine Land	444 BG/RR	41.8		916	3.4	1.11	29.6	82.3	41-3	4	52.90
3	Phytogen	310 R	39.7		901	3.7	1.09	30.1	81.2	32-2	4	53.00
4	Delta & Pine Land	445 BG/RR	40.3		851	3.4	1.12	31.8	81.6	41-3	5	50.20
5	Croplan Genetics	4020 B2RF	37.7		661	3.3	1.09	24.8	79.3	42-1	3	48.15
6	Stoneville	4427 B2RF	37.0		644	3.5	1.06	27.5	80.1	42-1	6	46.75
7	Croplan Genetics	3520 B2RF	36.0		640	3.2	1.09	24.8	79.3	42-1	4	45.95
8	Stoneville	4554 B2RF	39.0		639	3.8	1.05	26.8	80.4	32-2	4	51.50
9	Dyna-Gro	2100 B2RF	34.5		609	2.9	1.05	24.9	80.4	32-2	4	43.55
10	Dyna-Gro	2242 B2RF	36.6		593	3.3	1.07	23.7	80.7	32-2	4	48.10
11	Americot	1532 B2RF	36.4		546	3.2	1.08	25.8	79.7	32-2	4	48.95
12	Delta & Pine Land	117 B2RF	37.6		501	3.4	1.10	29.6	79.8	42-2	6	45.45
Mean			38.2		703	3.4	1.08	27.4	80.5		4	48.85

Agent	Jeff Via	Soil Type	Memphis Silt Loam
Producer	Conrad Powers	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	9/3/2007	Fertilizer	80-40-60-.05B
Harvest Date	9/24/2007	Row Spacing	38"

Table CST15. Results of early-mid season cotton variety test, Fayette County, 2007

Rank	Company	Variety	Gin		Lint Yield (lb./acre)	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)									
1	Delta & Pine Land	143 B2RF	37.3		839	3.6	1.19	30.1	79.7	41-3	5	51.90
2	Delta & Pine Land	164 B2RF	37.5		814	3.9	1.14	31.4	80.7	31-3	3	58.80
3	Delta & Pine Land	455 BG/RR	41.7		791	3.2	1.11	29.7	80.1	32-1	4	49.65
4	Croplan Genetics	3020 B2RF	36.0		783	3.1	1.08	27.1	81.1	32-2	4	48.95
5	Stoneville	5283 RF	40.0		779	3.9	1.07	31.6	81.5	32-2	4	51.95
6	Delta & Pine Land	454 BG/RR	40.3		764	3.1	1.05	27.3	80.2	42-1	5	44.70
7	Dyna-Gro	2520 B2RF	39.1		757	3.6	1.10	27.4	81.2	32-1	4	52.55
8	Stoneville	5327 B2RF	39.5		729	4.0	1.08	32.8	81.9	32-2	5	50.70
9	Dyna-Gro	2490 B2RF	35.0		699	3.1	1.04	26.7	81.3	31-4	5	46.30
10	Croplan Genetics	3220 B2RF	35.9		585	3.2	1.08	24.6	79.9	32-2	4	48.15
11	Phytogen	425 RF	37.4		560	3.7	1.07	28.4	79.9	43-2	5	46.30
12	Phytogen	485WRF	37.1		539	3.5	1.08	26.3	80.5	42-1	5	49.05
Mean			38.1		720	3.5	1.09	28.6	80.7		4	49.74

Agent	Jeff Via	Soil Type	Memphis Silt Loam
Producer	Conrad Powers	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	9/3/2007	Fertilizer	80-40-60-.05B
Harvest Date	9/24/2007	Row Spacing	38"

Table CST16. Results of early season cotton variety test, Gibson County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	444 BG/RR	40.1	763	3.2	1.06	25.1	80.6	42-1	4	45.65
2	Delta & Pine Land	445 BG/RR	38.1	652	3.6	1.06	27.9	79.6	43-1	4	47.45
3	Stoneville	4554 B2RF	36.6	619	3.7	1.05	26.5	79.6	43-2	4	47.65
4	Stoneville	4427 B2RF	38.0	610	3.3	1.08	23.8	79.9	53-1	4	43.35
5	Phytogen	310 R	38.5	604	3.5	1.01	22.8	78.9	42-2	4	46.05
6	Croplan Genetics	3520 B2RF	37.2	603	3.3	1.09	22.8	79.2	53-1	4	42.50
7	Phytogen	370 WR	38.6	591	3.7	1.01	24.0	78.6	53-1	5	42.05
8	Dyna-Gro	2242 B2RF	35.3	532	3.2	1.07	21.2	77.2	43-2	3	41.00
9	Croplan Genetics	4020 B2RF	36.0	510	3.5	1.07	22.3	77.3	43-2	4	44.65
10	Dyna-Gro	2100 B2RF	34.5	496	3.1	1.03	21.4	79.9	42-2	4	43.20
11	Americot	1532 B2RF	33.6	485	3.3	1.06	22.0	79.8	53-1	5	41.50
12	Delta & Pine Land	117 B2RF	36.6	450	3.2	1.06	23.4	77.9	63-2	7	16.65
Mean			36.9	576	3.4	1.05	23.6	79.0		4	41.81

Agent	Philip Shelby	Soil Type	Calloway-Falaya-Collins
Producer	Jason Luckey	Tillage	No-Till
Planting Date	4/30/2007	Previous Crop	Cotton
Defoliation Date	9/14/2007	Fertilizer	80-30-90
Harvest Date	10/1/2007	Row Spacing	38"

Table CST17. Results of early-mid season cotton variety test, Gibson County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	5327 B2RF	38.1	521	3.6	1.05	26.2	79.3	53-1	5	44.80
2	Stoneville	5283 RF	36.7	485	3.4	1.06	23.5	79.4	53-1	5	41.60
3	Dyna-Gro	2520 B2RF	35.5	467	3.2	1.05	21.3	77.6	43-2	4	40.60
4	Delta & Pine Land	454 BG/RR	34.9	461	3.2	1.03	22.7	78.2	52-2	6	39.50
5	Dyna-Gro	2490 B2RF	34.0	453	2.9	1.02	21.6	78.5	43-2	4	37.55
6	Phytogen	425 RF	36.0	433	3.5	1.08	25.8	81.3	53-1	5	45.75
7	Phytogen	485WRF	37.6	430	3.8	1.03	25.1	79.8	53-1	5	44.30
8	Croplan Genetics	3020 B2RF	31.7	421	2.8	1.05	21.3	79.4	53-1	4	36.10
9	Croplan Genetics	3220 B2RF	39.7	409	3.6	1.07	24.1	79.4	53-1	4	44.30
10	Delta & Pine Land	455 BG/RR	35.0	375	3.3	1.04	24.1	78.1	53-1	5	41.00
11	Delta & Pine Land	164 B2RF	34.6	340	3.3	1.08	23.0	77.8	53-2	5	41.60
12	Delta & Pine Land	143 B2RF	31.3	331	3.2	1.06	22.4	75.7	53-2	6	37.80
Mean			35.4	427	3.3	1.05	23.4	78.7		5	40.92

Agent	Philip Shelby	Soil Type	Calloway-Falaya-Collins
Producer	Jason Luckey	Tillage	No-Till
Planting Date	4/30/2007	Previous Crop	Cotton
Defoliation Date	9/14/2007	Fertilizer	80-30-90
Harvest Date	10/1/2007	Row Spacing	38"

Table CST18. Results of Liberty Link cotton variety test, Gibson County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	FiberMax	1735 LLB2	26.2	547	3.1	1.10	29.2	80.5	41-4	5	47.70
2	FiberMax	1600 LL	29.5	541	3.2	1.10	28.9	80.3	42-1	4	47.35
3	FiberMax	966 LL	29.3	437	3.0	1.04	24.5	80.4	42-2	5	43.55
4	FiberMax	955 LLB2	25.5	402	3.0	1.05	23.5	78.3	42-1	5	42.70
5	FiberMax	958 LL	27.8	337	2.8	1.08	24.9	79.6	42-2	5	41.30
Mean			27.7	453	3.0	1.07	26.2	79.8		5	43.73

Agent	Philip Shelby	Soil Type	Routon Silt Loam
Producer	REC at Milan	Tillage	No-Till
Planting Date	5/11/2007	Previous Crop	Cotton
Defoliation Date	9/15/2007	Fertilizer	100-50-90
Harvest Date	9/26/2007	Row Spacing	40"

Table CST19. Results of early season cotton variety test, Hardeman County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Phytogen	370 WR	38.9	775	3.8	1.01	24.2	80.2	42-2	3	47.40
2	Delta & Pine Land	445 BG/RR	41.1	768	3.7	1.03	27.4	80.6	41-4	4	50.80
3	Delta & Pine Land	444 BG/RR	41.4	761	3.5	1.03	26.3	80.3	41-4	3	51.15
4	Phytogen	310 R	38.8	754	3.7	1.01	24.1	80.8	42-2	4	46.95
5	Stoneville	4427 B2RF	38.2	691	3.4	1.02	25.9	79.5	52-1	4	45.90
6	Stoneville	4554 B2RF	37.2	659	3.9	1.04	25.7	80.3	42-2	4	49.55
7	Dyna-Gro	2242 B2RF	37.8	658	3.5	1.07	24.1	80.2	52-1	4	46.65
8	Croplan Genetics	3520 B2RF	36.8	647	3.5	1.06	24.1	80.2	52-1	4	46.65
9	Americot	1532 B2RF	38.5	640	3.6	1.06	24.3	79.3	52-1	4	46.05
10	Dyna-Gro	2100 B2RF	35.3	621	3.3	1.04	24.5	79.5	52-1	4	45.10
11	Croplan Genetics	4020 B2RF	36.6	593	3.3	1.05	23.1	78.2	42-2	4	45.90
12	Delta & Pine Land	117 B2RF	37.4	584	3.6	1.06	27.3	80.0	42-2	5	48.30
Mean			38.2	679	3.6	1.04	25.1	79.9		4	47.53

Agent	Bob Vickers	Soil Type	Lexington Silt Loam
Producer	Gem Mitchell	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	10/8/2007	Fertilizer	40-50-80 40N side dress
Harvest Date	10/21/2007	Row Spacing	38"

Table CST20. Results of early-mid season cotton variety test, Hardeman County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Croplan Genetics	3220 B2RF	37.6	809	3.5	1.05	27.4	79.1	42-1	3	49.85
2	Stoneville	5327 B2RF	37.6	804	3.4	1.05	26.9	80.4	42-2	4	48.15
3	Dyna-Gro	2490 B2RF	36.0	792	3.0	1.02	23.5	78.8	42-2	4	43.85
4	Stoneville	5283 RF	38.9	783	3.4	1.06	28.2	79.2	52-1	4	45.45
5	Croplan Genetics	3020 B2RF	37.4	765	3.3	1.03	24.0	79.6	42-2	3	46.45
6	Delta & Pine Land	164 B2RF	38.6	758	3.5	1.05	24.2	77.6	42-2	4	48.05
7	Phytogen	485WRF	37.5	757	3.6	1.06	27.4	80.7	52-1	5	47.05
8	Dyna-Gro	2520 B2RF	37.5	730	3.5	1.05	23.1	78.8	42-1	3	48.30
9	Phytogen	425 RF	35.5	692	3.6	1.07	27.8	81.4	52-1	3	48.50
10	Delta & Pine Land	455 BG/RR	39.8	687	3.3	1.02	27.5	77.6	42-1	4	46.75
11	Delta & Pine Land	454 BG/RR	38.7	682	3.3	0.99	23.4	78.3	41-4	4	45.30
12	Delta & Pine Land	143 B2RF	36.6	633	3.2	1.06	26.1	78.3	42-2	5	44.00
Mean			37.6	741	3.4	1.04	25.8	79.2		4	46.53

Agent	Bob Vickers	Soil Type	Lexington Silt Loam
Producer	Gem Mitchell	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	10/8/2007	Fertilizer	40-50-80 40N side dress
Harvest Date	10/21/2007	Row Spacing	38"

Table CST21. Results of early season cotton variety test, Haywood County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	444 BG/RR	40.2	544	4.0	1.02	24.9	77.5	52-1	3	47.05
2	Stoneville	4554 B2RF	36.7	483	4.7	1.01	28.5	80.6	53-1	4	44.60
3	Delta & Pine Land	445 BG/RR	39.2	454	4.2	1.00	27.9	79.9	52-1	4	46.85
4	Phytogen	370 WR	38.0	443	4.5	1.01	25.1	77.8	53-1	4	43.10
5	Phytogen	310 R	38.9	433	4.6	0.98	25.7	79.2	53-1	4	43.90
6	Stoneville	4427 B2RF	37.6	429	4.2	1.04	23.6	78.9	62-1	5	43.70
7	Croplan Genetics	3520 B2RF	36.5	398	4.1	1.03	23.9	78.0	53-2	5	43.10
8	Croplan Genetics	4020 B2RF	36.2	367	4.2	1.02	23.1	78.5	53-1	4	43.65
9	Dyna-Gro	2242 B2RF	35.7	358	4.2	1.04	22.5	79.9	53-2	5	43.55
10	Dyna-Gro	2100 B2RF	33.9	346	4.0	1.00	22.6	79.0	53-1	4	42.50
11	Delta & Pine Land	117 B2RF	37.2	346	4.3	1.01	25.2	79.3	52-1	5	44.55
12	Americot	1532 B2RF	35.5	321	4.2	1.04	24.3	78.4	52-1	4	46.00
Mean			37.1	410	4.3	1.02	24.8	78.9		4	44.38

Agent	Tracey Sullivan	Soil Type	Loring Silt Laom
Producer	Taylor Sullivan	Tillage	No-Till
Planting Date	5/14/2007	Previous Crop	Cotton
Defoliation Date	10/15/2007	Fertilizer	80-50-90-1B
Harvest Date	11/2/2007	Row Spacing	38"

Table CST22. Results of early-mid season cotton variety test, Haywood County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	5283 RF	37.7	551	4.1	1.01	25.9	79.0	63-1	5	42.00
2	Stoneville	5327 B2RF	37.7	519	4.0	1.05	26.1	79.9	63-1	5	44.45
3	Croplan Genetics	3220 B2RF	38.4	517	4.1	1.04	25.2	80.0	53-2	4	45.00
4	Phytogen	485WRF	36.7	453	4.1	1.02	27.3	78.8	63-1	5	43.15
5	Phytogen	425 RF	35.8	424	4.1	1.01	25.4	80.3	63-1	5	41.80
6	Dyna-Gro	2490 B2RF	34.5	423	3.3	1.02	24.8	78.6	52-1	5	43.65
7	Delta & Pine Land	454 BG/RR	37.1	413	4.0	0.98	25.4	78.3	52-2	5	44.40
8	Delta & Pine Land	164 B2RF	36.0	387	3.9	1.04	23.6	77.7	52-2	5	45.15
9	Delta & Pine Land	455 BG/RR	38.1	359	4.0	1.02	27.3	78.0	52-1	4	47.30
10	Dyna-Gro	2520 B2RF	36.2	342	3.6	1.03	22.5	77.5	53-1	4	43.35
11	Croplan Genetics	3020 B2RF	33.8	322	3.4	1.00	23.3	77.5	53-2	4	40.30
12	Delta & Pine Land	143 B2RF	33.9	293	3.7	1.06	24.1	78.1	53-2	5	43.60
Mean			36.3	417	3.9	1.02	25.1	78.6		5	43.83

Agent	Tracey Sullivan	Soil Type	Memphis Silt Loam
Producer	Taylor Sullivan	Tillage	No-Till
Planting Date	5/14/2007	Previous Crop	Cotton
Defoliation Date	10/15/2007	Fertilizer	80-50-90-1B
Harvest Date	11/2/2007	Row Spacing	38"

Table CST23. Results of early season cotton variety test, Lake County, 2007

Rank	Company	Variety	Gin		Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI	Leaf Grade	Loan Value (¢/lb.)
			Turnout	Lint Yield (lb./acre)							
1	Stoneville	4554 B2RF	35.8	646	3.7	1.08	26.3	80.9	42-2	4	51.15
2	Delta & Pine Land	444 BG/RR	37.7	637	3.4	1.06	25.9	80.5	41-3	4	50.60
3	Stoneville	4427 B2RF	35.9	616	3.4	1.06	24.9	78.1	52-1	4	44.55
4	Phytogen	310 R	37.6	609	3.4	1.05	26.4	80.3	42-2	4	48.15
5	Phytogen	370 WR	35.8	555	3.4	1.02	23.0	79.6	42-2	4	45.90
6	Delta & Pine Land	445 BG/RR	37.7	544	3.6	1.10	29.4	81.6	42-1	4	50.95
7	Americot	1532 B2RF	35.2	517	3.4	1.07	23.1	79.2	42-2	4	46.00
8	Dyna-Gro	2242 B2RF	34.6	495	3.1	1.12	24.2	80.2	52-1	4	43.45
9	Dyna-Gro	2100 B2RF	31.6	429	2.8	1.06	22.6	80.2	42-1	3	41.95
10	Croplan Genetics	3520 B2RF	32.2	411	3.0	1.10	23.2	79.7	52-1	4	43.15
11	Delta & Pine Land	117 B2RF	35.8	377	3.6	1.07	27.7	79.2	42-2	4	49.45
12	Croplan Genetics	4020 B2RF	34.9	377	3.2	1.08	23.4	80.5	42-2	3	46.30
Mean			35.4	518	3.3	1.07	25.0	80.0		4	46.80

Agent	Greg Allen	Soil Type	Tiptonville Silt Loam
Producer	Tony Bargery	Tillage	No-Till with para-plow
Planting Date	5/3/2007	Previous Crop	Cotton
Defoliation Date	9/21/2007	Fertilizer	0-0-100 + 100N side dress
Harvest Date	10/2/2007	Row Spacing	38"

Table CST24. Results of early-mid season cotton variety test, Lake County, 2007

Rank	Company	Variety	Gin		Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI	Leaf Grade	Loan Value (¢/lb.)
			Turnout	Lint Yield (lb./acre)							
1	Stoneville	5283 RF	40.0	1127	3.7	1.09	29.5	80.7	52-1	6	46.15
2	Stoneville	5327 B2RF	38.4	1093	3.9	1.10	29.9	81.0	42-2	7	46.05
3	Phytogen	485WRF	37.9	1034	4.1	1.10	29.2	82.2	52-1	8	12.70
4	Croplan Genetics	3220 B2RF	37.9	1030	3.6	1.11	28.2	81.4	42-1	5	49.15
5	Dyna-Gro	2520 B2RF	37.7	1024	3.5	1.14	27.4	81.6	42-1	5	49.15
6	Phytogen	425 RF	36.5	1011	3.9	1.10	29.6	81.9	52-1	8	12.95
7	Delta & Pine Land	164 B2RF	39.1	987	3.9	1.15	29.3	81.4	42-1	4	51.55
8	Dyna-Gro	2490 B2RF	36.2	985	3.1	1.08	25.8	80.5	42-2	6	43.50
9	Croplan Genetics	3020 B2RF	33.8	937	3.1	1.07	26.6	81.6	42-1	5	44.70
10	Delta & Pine Land	454 BG/RR	38.1	856	3.3	1.07	28.4	80.6	42-2	8	10.60
11	Delta & Pine Land	455 BG/RR	37.3	855	3.4	1.08	29.5	79.4	42-1	6	44.85
12	Delta & Pine Land	143 B2RF	36.0	774	3.3	1.12	28.7	80.6	52-1	8	10.60
Mean			37.4	976	3.6	1.10	28.5	81.1		6	34.16

Agent	Greg Allen	Soil Type	Tiptonville Silt Loam
Producer	John Lindamood	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	9/10/2007	Fertilizer	26-0-74-20S-.5B+10N side dress
Harvest Date	9/24/2007	Row Spacing	38"

Table CST25. Results of Liberty Link cotton variety test, Lake County, 2007

Rank	Company	Variety	Gin		Mic	Length	Strength	Uni-	HVI	Leaf	Loan
			Turnout	Lint Yield				formity			
			(%)	(lb./acre)		(inches)	(g/tex)	(%)	Color	Grade	(¢/lb.)
1	FiberMax	1735 LLB2	32.0	470	4.1	1.06	27.9	80.6	41-1	3	53.40
2	FiberMax	955 LLB2	31.0	412	4.0	1.10	26.1	81.0	41-4	4	54.10
3	FiberMax	1600 LL	31.3	402	3.9	1.10	27.8	80.0	41-2	3	54.75
4	FiberMax	958 LL	31.5	362	3.6	1.08	27.8	80.4	42-2	4	50.95
5	FiberMax	966 LL	30.0	352	4.0	1.07	32.7	81.3	42-2	4	50.70
Mean			31.2	399	3.9	1.08	28.5	80.7		4	52.63

Agent	Greg Allen	Soil Type	Worthen Silt Loam
Producer	John Lindamood	Tillage	No-Till
Planting Date	5/8/2007	Previous Crop	Cotton
Defoliation Date	9/16/2007	Fertilizer	26-0-74-20S-.5B+70N side dress
Harvest Date	10/1/2007	Row Spacing	38"

Table CST26. Results of early season cotton variety test, Lauderdale County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Phytogen	310 R	42.8	976	3.5	1.06	29.1	81.0	32-2	4	51.30
2	Phytogen	370 WR	39.5	903	3.5	1.09	29.3	81.2	32-2	4	52.55
3	Americot	1532 B2RF	38.8	862	3.3	1.13	26.0	80.2	42-1	4	49.45
4	Stoneville	4427 B2RF	36.9	823	3.3	1.09	26.6	80.3	42-2	5	47.15
5	Stoneville	4554 B2RF	35.1	771	3.1	1.11	29.4	80.1	42-1	5	45.55
6	Delta & Pine Land	444 BG/RR	37.0	765	3.1	1.09	28.1	81.5	32-2	4	48.95
7	Delta & Pine Land	445 BG/RR	38.1	720	3.4	1.11	29.5	81.7	31-3	4	54.10
8	Dyna-Gro	2100 B2RF	34.4	715	2.8	1.09	26.0	81.0	32-2	4	45.60
9	Dyna-Gro	2242 B2RF	35.2	673	3.3	1.12	26.9	81.4	42-1	5	47.25
10	Croplan Genetics	4020 B2RF	35.4	646	3.1	1.12	25.3	79.9	32-2	4	48.60
11	Croplan Genetics	3520 B2RF	35.8	624	3.2	1.12	27.1	80.4	42-1	5	45.55
12	Delta & Pine Land	117 B2RF	36.2	428	3.2	1.13	29.6	80.9	42-2	7	42.25
Mean			37.1	742	3.2	1.11	27.7	80.8		5	48.19

Agent	Jerry Parker	Soil Type	Robinsonville Sandy Loam
Producer	Leslie Crook	Tillage	Conventional Beds
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	9/7/2007	Fertilizer	30-0-90-15S-.5B+64N Side dress
Harvest Date	9/20/2007	Row Spacing	38"

Table CST27. Results of early-mid season cotton variety test, Lauderdale County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Delta & Pine Land	454 BG/RR	40.0	944	3.3	1.10	29.8	81.9	41-4	6	47.15
2	Stoneville	5327 B2RF	37.5	878	3.3	1.09	28.4	80.6	32-2	5	48.15
3	Dyna-Gro	2490 B2RF	36.2	839	2.7	1.09	25.4	81.3	31-4	4	47.35
4	Stoneville	5283 RF	37.4	837	3.3	1.12	30.4	80.8	42-1	5	47.50
5	Dyna-Gro	2520 B2RF	39.2	834	2.9	1.12	24.8	78.8	32-1	3	45.65
6	Croplan Genetics	3020 B2RF	34.6	821	2.9	1.12	27.7	82.2	42-1	4	44.40
7	Delta & Pine Land	455 BG/RR	37.0	807	3.0	1.09	29.8	79.6	32-1	4	49.20
8	Delta & Pine Land	164 B2RF	35.6	781	3.4	1.16	27.9	80.8	31-4	4	54.00
9	Delta & Pine Land	143 B2RF	34.6	724	3.1	1.16	28.2	79.4	31-4	5	49.55
10	Phytogen	485WRF	36.7	702	3.3	1.12	27.6	81.5	42-1	5	47.25
11	Phytogen	425 RF	34.1	653	3.4	1.12	28.5	81.4	42-2	5	47.25
12	Croplan Genetics	3220 B2RF	34.8	651	3.0	1.13	26.2	80.1	32-2	3	50.40
Mean			36.5	789	3.1	1.12	27.9	80.7		4	48.25

Agent	Jerry Parker	Soil Type	Robinsonville Silt Loam
Producer	Leslie Crook	Tillage	Conventional Beds
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	9/7/2007	Fertilizer	30-0-90-15S-.5B+64N Side dress
Harvest Date	9/20/2007	Row Spacing	38"

Table CST28. Results of Liberty Link cotton variety test, Lauderdale County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	FiberMax	1600 LL	30.8	701	3.4	1.13	33.5	81.3	31-2	4	54.30
2	FiberMax	1735 LLB2	29.6	660	3.1	1.12	31.1	80.6	41-1	4	51.40
3	FiberMax	958 LL	27.9	494	3.0	1.14	31.9	80.4	41-3	5	48.50
4	FiberMax	966 LL	28.8	429	3.1	1.09	31.6	80.1	31-4	4	51.95
5	FiberMax	955 LLB2	29.2	421	3.3	1.16	27.9	80.7	32-2	4	51.15
Mean			29.3	541	3.2	1.13	31.2	80.6		4	50.75

Agent	Jerry Parker	Soil Type	Robinsonville Silt Loam
Producer	Leslie Crook	Tillage	Conventional Beds
Planting Date	5/9/2007	Previous Crop	Cotton
Defoliation Date	9/7/2007	Fertilizer	30-0-90-15S-.5B+64N Side dress
Harvest Date	9/19/2007	Row Spacing	38"

Table CST29. Results of early season cotton variety test, Lincoln County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	4554 B2RF	38.3	901	4.2	1.08	28.9	80.3	31-1	4	55.50
2	Stoneville	4427 B2RF	35.6	812	3.8	1.05	28.1	79.2	31-1	5	51.00
3	Delta & Pine Land	444 BG/RR	37.5	790	3.3	1.04	27.5	78.9	31-2	3	49.95
4	Phytogen	310 R	39.1	767	4.0	1.04	27.2	79.7	31-1	4	51.70
5	Delta & Pine Land	445 BG/RR	36.2	699	3.7	1.07	30.0	79.8	31-1	4	54.00
6	Americot	1532 B2RF	35.5	688	3.6	1.09	25.9	78.2	31-1	4	54.60
7	Phytogen	370 WR	38.0	686	4.2	1.07	29.4	81.2	31-2	5	51.60
8	Dyna-Gro	2242 B2RF	33.5	681	3.1	1.08	24.1	78.9	31-1	5	47.75
9	Croplan Genetics	3520 B2RF	34.5	678	3.1	1.11	22.6	78.5	31-1	4	50.20
10	Croplan Genetics	4020 B2RF	34.4	605	3.1	1.08	22.3	77.0	31-1	4	48.90
11	Delta & Pine Land	117 B2RF	37.8	597	3.5	1.09	27.2	78.1	41-1	6	48.30
12	Dyna-Gro	2100 B2RF	33.5	596	3.0	1.06	22.6	78.8	31-1	4	47.80
Mean			36.2	708	3.6	1.07	26.3	79.1		4	50.94

Agent	David Qualls	Soil Type	Silt Loam
Producer	JBH farms	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	10/10/2007	Fertilizer	30-50-100+98N Side dress
Harvest Date	10/20/2007	Row Spacing	38"

Table CST30. Results of early-mid season cotton variety test, Lincoln County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	455 BG/RR	38.3	809	3.2	1.03	28.7	78.5	21-4	4	47.65
2	Delta & Pine Land	454 BG/RR	37.9	791	3.0	1.03	25.5	78.5	31-2	5	45.90
3	Delta & Pine Land	164 B2RF	36.1	756	4.0	1.10	28.4	78.5	31-1	4	54.90
4	Croplan Genetics	3020 B2RF	34.0	725	3.0	1.04	22.8	79.1	21-2	4	46.10
5	Delta & Pine Land	143 B2RF	34.7	708	4.0	1.14	27.9	79.5	31-2	5	54.15
6	Croplan Genetics	3220 B2RF	33.6	644	3.2	1.06	25.3	79.5	31-1	3	50.60
7	Stoneville	5327 B2RF	37.1	639	3.6	1.04	28.2	79.1	31-1	4	50.90
8	Dyna-Gro	2520 B2RF	33.0	624	2.9	1.04	22.2	76.7	31-1	4	41.75
9	Stoneville	5283 RF	36.8	602	3.8	1.04	29.9	79.8	31-3	3	52.90
10	Dyna-Gro	2490 B2RF	33.2	564	2.5	1.03	22.2	76.9	31-1	5	37.90
11	Phytogen	425 RF	34.6	527	3.8	1.06	26.6	79.8	31-4	5	51.60
12	Phytogen	485WRF	35.6	494	3.7	1.03	27.2	79.2	31-4	5	49.70
Mean			35.4	657	3.4	1.05	26.2	78.8		4	48.76

Agent	David Qualls	Soil Type	Silt Loam
Producer	JBH farms	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	10/10/2007	Fertilizer	30-50-100+98N Side dress
Harvest Date	10/20/2007	Row Spacing	38"

Table CST31. Results of early season cotton variety test, Madison County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Phytogen	310 R	40.0	625	4.0	1.01	24.4	80.6	42-1	3	47.40
2	Phytogen	370 WR	37.7	565	4.3	1.02	25.9	80.1	42-1	3	49.65
3	Delta & Pine Land	444 BG/RR	38.1	523	3.6	1.01	24.6	79.3	32-2	3	48.00
4	Delta & Pine Land	445 BG/RR	37.8	517	4.4	1.04	30.7	81.1	32-1	3	51.20
5	Stoneville	4554 B2RF	37.2	500	4.2	1.03	27.0	81.2	42-1	3	49.85
6	Americot	1532 B2RF	36.9	498	3.7	1.05	22.1	79.9	43-1	2	46.15
7	Stoneville	4427 B2RF	34.4	461	3.7	1.04	23.9	80.3	42-2	4	48.25
8	Delta & Pine Land	117 B2RF	39.5	406	3.9	1.04	27.0	79.5	42-1	4	49.55
9	Croplan Genetics	4020 B2RF	35.9	373	3.9	1.07	22.9	80.8	42-1	2	49.35
10	Croplan Genetics	3520 B2RF	35.4	370	3.7	1.08	23.8	81.0	42-2	3	50.35
11	Dyna-Gro	2100 B2RF	32.2	351	3.5	1.02	23.8	81.6	43-2	3	46.35
12	Dyna-Gro	2242 B2RF	31.5	337	3.8	1.06	22.7	80.6	43-2	3	46.60
Mean			36.4	461	3.9	1.04	24.9	80.5		3	48.56

Agent	Bill Wyatt	Soil Type	Memphis-Loring Silt Loam
Producer	Mark Smith	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	9/19/2007	Fertilizer	80-60-90
Harvest Date	10/4/2007	Row Spacing	38"

Table CST32. Results of early-mid season cotton variety test, Madison County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	5283 RF	36.6	479	3.9	1.04	27.1	80.1	43-1	4	47.30
2	Stoneville	5327 B2RF	35.8	448	4.0	1.04	28.2	81.0	43-1	3	47.85
3	Delta & Pine Land	454 BG/RR	39.1	443	3.7	0.96	23.3	79.1	42-1	4	46.00
4	Delta & Pine Land	164 B2RF	36.2	415	3.8	1.07	24.1	79.1	42-1	3	48.75
5	Phytogen	425 RF	36.0	401	4.5	1.03	26.9	81.4	43-1	3	47.65
6	Croplan Genetics	3220 B2RF	38.6	392	3.9	1.07	23.8	81.0	43-1	2	46.85
7	Dyna-Gro	2490 B2RF	35.0	378	3.6	1.01	24.6	79.6	42-1	3	47.85
8	Phytogen	485WRF	34.4	366	4.1	1.03	26.7	81.6	43-2	4	47.30
9	Dyna-Gro	2520 B2RF	34.4	334	3.5	1.06	22.3	79.9	42-1	2	48.70
10	Delta & Pine Land	143 B2RF	35.8	315	3.5	1.10	25.1	79.7	42-1	4	50.15
11	Delta & Pine Land	455 BG/RR	35.4	315	3.9	1.04	25.9	78.5	43-1	2	47.25
12	Croplan Genetics	3020 B2RF	32.3	314	3.4	1.03	22.9	79.3	43-1	3	43.60
Mean			35.8	383	3.8	1.04	25.1	80.0		3	47.45

Agent	Bill Wyatt	Soil Type	Memphis-Loring Silt Loam
Producer	Mark Smith	Tillage	No-Till
Planting Date	5/7/2007	Previous Crop	Cotton
Defoliation Date	9/19/2007	Fertilizer	80-60-90
Harvest Date	10/4/2007	Row Spacing	38"

Table CST33. Results of early season cotton variety test, Shelby County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Dyna-Gro	2100 B2RF	44.7	861	3.2	1.09	24.8	80.3	21-3	4	51.05
2	Stoneville	4427 B2RF	42.6	803	3.8	1.10	28.6	80.5	22-1	5	51.55
3	Dyna-Gro	2242 B2RF	39.4	773	3.6	1.12	25.9	80.3	22-1	4	54.70
4	Croplan Genetics	3520 B2RF	43.7	769	3.3	1.10	25.4	79.8	22-1	4	51.45
5	Delta & Pine Land	445 BG/RR	49.4	735	3.5	1.11	30.2	81.4	22-1	4	54.95
6	Delta & Pine Land	444 BG/RR	39.5	706	3.6	1.08	27.5	81.5	21-3	3	57.65
7	Phytogen	370 WR	38.3	655	3.5	1.06	25.2	78.9	22-1	4	51.20
8	Phytogen	310 R	34.2	618	3.5	1.08	25.2	80.2	22-1	4	53.35
9	Americot	1532 B2RF	35.1	617	3.0	1.11	22.7	79.8	11-3	3	53.55
10	Delta & Pine Land	117 B2RF	43.2	615	3.5	1.11	29.2	80.2	22-1	5	51.70
11	Stoneville	4554 B2RF	34.5	609	3.6	1.11	29.0	80.9	22-1	5	51.70
12	Croplan Genetics	4020 B2RF	27.7	414	3.6	1.10	24.5	79.4	22-1	3	53.60
Mean			39.4	681	3.5	1.10	26.5	80.3		4	53.04

Agent	Becky Muller	Soil Type	Memphis Silt Loam
Producer	Sneed Bros.	Tillage	Conventional
Planting Date	4/26/2007	Previous Crop	Cotton
Defoliation Date	8/24/2007	Fertilizer	50-30-80+50N Side dress
Harvest Date	9/4/2007	Row Spacing	30"

Table CST34. Results of early-mid season cotton variety test, Shelby County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Delta & Pine Land	454 BG/RR	45.5	727	3.4	1.04	25.6	80.3	21-3	4	49.75
2	Dyna-Gro	2490 B2RF	41.1	705	3.2	1.06	24.2	80.4	11-4	5	46.95
3	Phytogen	425 RF	44.0	700	4.1	1.08	27.4	81.7	22-1	5	51.55
4	Delta & Pine Land	164 B2RF	37.5	661	3.5	1.05	24.3	79.7	21-3	4	52.25
5	Stoneville	5283 RF	38.6	650	3.6	1.09	28.3	79.6	22-1	4	54.15
6	Croplan Genetics	3020 B2RF	34.4	612	3.3	1.07	24.5	81.6	11-3	3	52.45
7	Croplan Genetics	3220 B2RF	40.0	608	3.7	1.07	25.7	79.0	12-1	3	53.00
8	Dyna-Gro	2520 B2RF	37.1	596	3.1	1.10	24.4	79.6	11-3	3	52.75
9	Phytogen	485WRF	35.7	515	3.8	1.07	25.4	80.7	22-1	5	49.80
10	Delta & Pine Land	455 BG/RR	37.5	486	3.4	1.09	29.5	79.6	12-1	2	53.65
11	Delta & Pine Land	143 B2RF	31.4	421	3.0	1.10	27.9	78.7	21-3	5	49.35
12	Stoneville	5327 B2RF	22.6	386	3.1	1.08	27.8	79.5	22-1	5	47.75
Mean			37.1	589	3.4	1.08	26.3	80.0		4	51.24

Agent	Becky Muller	Soil Type	Memphis Silt Loam
Producer	Sneed Bros.	Tillage	Conventional
Planting Date	4/26/2007	Previous Crop	Cotton
Defoliation Date	8/24/2007	Fertilizer	50-30-80+50N Side dress
Harvest Date	9/4/2007	Row Spacing	30"

Table CST35. Results of early season cotton variety test, Tipton County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Delta & Pine Land	444 BG/RR	38.3	737	3.7	1.04	25.4	79.9	42-2	5	47.35
2	Phytogen	310 R	40.3	643	4.2	1.00	25.2	80.4	52-1	4	46.05
3	Stoneville	4427 B2RF	37.4	625	3.7	1.05	25.4	79.9	52-1	5	46.45
4	Delta & Pine Land	445 BG/RR	39.5	600	4.2	1.02	25.5	79.4	43-2	3	47.25
5	Dyna-Gro	2242 B2RF	40.4	595	3.6	1.06	23.4	79.5	52-2	5	45.50
6	Phytogen	370 WR	39.6	585	4.2	1.00	24.1	78.2	52-1	4	44.85
7	Stoneville	4554 B2RF	35.7	582	3.7	1.07	26.5	80.9	52-1	4	48.15
8	Croplan Genetics	3520 B2RF	37.1	542	3.7	1.08	24.2	79.4	53-1	4	44.85
9	Dyna-Gro	2100 B2RF	36.0	527	3.6	1.07	23.8	80.2	52-1	4	46.65
10	Americot	1532 B2RF	37.8	502	3.8	1.07	23.8	79.8	52-2	5	45.95
11	Delta & Pine Land	117 B2RF	39.4	495	4.0	1.06	26.4	80.4	52-1	5	47.25
12	Croplan Genetics	4020 B2RF	37.6	468	3.7	1.06	23.4	77.5	53-1	4	44.15
Mean			38.3	575	3.8	1.05	24.8	79.6		4	46.20

Agent	Daniel Jacobs	Soil Type	Gernada Silt Loam
Producer	Glenn Hopkins	Tillage	No-Till
Planting Date	5/2/2007	Previous Crop	Cotton
Defoliation Date	9/13/2007	Fertilizer	80-30-90
Harvest Date	9/27/2007	Row Spacing	38"

Table CST36. Results of early-mid season cotton variety test, Tipton County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	5327 B2RF	37.7	639	4.4	1.02	27.6	80.1	52-1	4	47.80
2	Stoneville	5283 RF	37.9	636	4.2	1.03	28.2	80.6	52-2	5	47.15
3	Delta & Pine Land	164 B2RF	34.1	578	4.4	1.05	25.8	79.4	51-3	5	47.80
4	Dyna-Gro	2490 B2RF	37.7	576	3.7	0.99	24.1	79.7	52-1	5	44.70
5	Dyna-Gro	2520 B2RF	35.8	544	4.4	1.05	25.6	79.5	52-1	5	47.05
6	Croplan Genetics	3020 B2RF	33.7	521	4.0	1.00	24.0	79.2	42-2	4	46.35
7	Delta & Pine Land	143 B2RF	35.0	512	4.5	1.09	28.9	79.8	52-1	5	47.40
8	Croplan Genetics	3220 B2RF	36.4	509	4.5	1.05	28.4	81.2	53-2	4	46.20
9	Phytogen	425 RF	36.3	487	4.5	1.04	29.6	81.2	53-2	5	45.15
10	Phytogen	485WRF	35.0	476	4.4	1.03	27.7	81.3	53-2	5	44.90
Mean			35.9	548	4.3	1.04	27.0	80.2		5	46.30

Agent	Daniel Jacobs	Soil Type	Memphis Silt Loam
Producer	David Templeton	Tillage	No-Till
Planting Date	5/14/2007	Previous Crop	Soybeans
Defoliation Date	10/16/2007	Fertilizer	40-0-110
Harvest Date	10/30/2007	Row Spacing	38"

Table CST37. Results of additional cotton variety test, Tipton County, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	Stoneville	4427 B2RF	39.0	668	4.4	1.00	26.3	78.8	42-1	4	47.60
2	Stoneville	5327 B2RF	44.1	646	4.5	1.01	28.2	80.0	42-1	4	48.20
3	Stoneville	5283 RF	39.4	570	4.5	1.04	30.4	80.3	42-2	5	48.20
4	Delta & Pine Land	164 B2RF	36.8	539	4.4	1.08	27.1	80.3	42-1	3	51.45
5	Phytogen	485WRF	36.0	518	4.8	1.01	28.7	79.8	42-1	3	48.65
6	Delta & Pine Land	143 B2RF	32.2	384	4.2	1.07	26.9	78.7	32-2	4	50.90
Mean			37.9	554	4.5	1.04	27.9	79.7		4	49.48

Agent	Daniel Jacobs	Soil Type	Memphis Silt Loam
Producer	David McDaniel	Tillage	Conventional Beds
Planting Date	5/9/2007	Previous Crop	Cotton
Defoliation Date	9/28/2007	Fertilizer	80-30-90
Harvest Date	10/17/2007	Row Spacing	38"

Table CST38. Results of early season cotton variety test, West TN Research and Education Center, Jackson, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Delta & Pine Land	444 BG/RR	38.3	1014	2.9	1.11	27.2	80.1	11-3	3	51.75
2	Phytogen	310 R	39.3	966	3.2	1.07	27.5	80.2	12-2	3	49.80
3	Delta & Pine Land	445 BG/RR	38.0	906	3.0	1.09	31.5	81.0	22-1	3	51.85
4	Croplan Genetics	3520 B2RF	35.1	889	2.9	1.13	24.9	81.1	12-2	4	46.95
5	Dyna-Gro	2242 B2RF	35.6	872	2.9	1.12	26.6	80.3	12-1	4	47.75
6	Phytogen	370 WR	37.4	856	3.2	1.07	27.3	81.0	12-2	3	49.80
7	Stoneville	4554 B2RF	35.4	849	3.1	1.10	28.4	80.6	12-1	4	50.55
8	Stoneville	4427 B2RF	35.2	825	3.0	1.12	29.0	79.9	22-1	5	48.10
9	Dyna-Gro	2100 B2RF	34.1	825	2.7	1.10	26.4	80.7	11-4	4	48.50
10	Croplan Genetics	4020 B2RF	35.3	762	2.9	1.13	25.8	80.1	12-1	3	48.80
11	Americot	1532 B2RF	35.5	749	2.8	1.11	24.2	78.0	12-1	3	46.80
12	Delta & Pine Land	117 B2RF	37.2	689	3.2	1.13	29.4	79.4	22-2	5	47.50
Mean			36.4	850	3.0	1.11	27.4	80.2		4	49.01

Agent	Tracy Bush	Soil Type	Dexter-Calloway Silt Loam
Producer	Bob Hayes	Tillage	No-Till
Planting Date	4/23/2005	Previous Crop	Corn
Defoliation Date	8/20/2007	Fertilizer	0-45-60+85N Side dress
Harvest Date	9/5/2007	Row Spacing	38"

Table CST39. Results of early-mid season cotton variety test, West TN Research and Education Center, Jackson, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni- formity (%)	HVI Color	Leaf Grade	Loan Value (¢/lb.)
			Turnout (%)	Yield (lb./acre)							
1	Delta & Pine Land	454 BG/RR	38.9	811	3.5	1.05	24.2	80.0	22-1	5	49.10
2	Croplan Genetics	3020 B2RF	34.5	669	2.8	1.09	27.0	80.3	11-3	3	50.70
3	Delta & Pine Land	455 BG/RR	36.9	625	2.8	1.07	28.3	78.5	12-2	3	45.85
4	Delta & Pine Land	164 B2RF	34.2	621	2.8	1.14	26.6	80.6	11-4	3	51.95
5	Stoneville	5327 B2RF	36.2	595	3.2	1.13	30.5	81.2	12-2	4	51.55
6	Phytogen	425 RF	34.7	593	3.4	1.10	29.1	81.2	22-2	5	49.45
7	Delta & Pine Land	143 B2RF	34.2	590	2.8	1.14	26.9	78.7	22-1	5	44.30
8	Phytogen	485WRF	36.2	586	3.1	1.12	28.0	80.5	23-1	5	46.00
9	Stoneville	5283 RF	36.8	584	3.2	1.11	30.1	79.5	22-1	5	48.35
10	Dyna-Gro	2520 B2RF	35.3	568	3.0	1.14	26.5	80.6	12-1	3	52.30
11	Dyna-Gro	2490 B2RF	35.7	555	2.8	1.08	26.1	79.0	21-3	5	46.00
12	Croplan Genetics	3220 B2RF	34.9	535	2.9	1.15	27.0	80.5	12-2	3	48.95
Mean			35.7	611	3.0	1.11	27.5	80.1		4	48.67

Agent	Tracy Bush	Soil Type	Dexter-Calloway Silt Loam
Producer	Bob Hayes	Tillage	No-Till
Planting Date	4/23/2005	Previous Crop	Corn
Defoliation Date	8/20/2007	Fertilizer	0-45-60+85N Side dress
Harvest Date	9/5/2007	Row Spacing	38"

Table CST40. Results of Liberty Link cotton variety test, West TN Research and Education Center, Jackson, 2007

Rank	Company	Variety	Gin	Lint	Mic	Length (inches)	Strength (g/tex)	Uni-	HVI Color	Leaf Grade	Loan
			Turnout (%)	Yield (lb./acre)				formity (%)			Value (¢/lb.)
1	FiberMax	1600 LL	42.2	1026	3.0	1.14	31.0	80.8	11-1	3	55.75
2	FiberMax	1735 LLB2	27.7	707	3.1	1.14	32.8	81.4	21-1	3	55.75
3	FiberMax	955 LLB2	29.4	674	3.0	1.18	29.9	81.2	21-3	3	55.55
4	FiberMax	966 LL	25.9	655	3.0	1.12	33.7	81.7	21-1	3	55.55
5	FiberMax	958 LL	26.9	639	2.9	1.18	33.4	80.5	11-2	3	52.40
Mean			30.4	740	3.0	1.15	32.2	81.1		3	54.81

Agent	Tracy Bush	Soil Type	Dexter-Calloway Silt Loam
Producer	Bob Hayes	Tillage	No-Till
Planting Date	4/23/2005	Previous Crop	Corn
Defoliation Date	8/20/2007	Fertilizer	0-45-60+85N Side dress
Harvest Date	9/5/2007	Row Spacing	38"

GLOSSARY OF TERMS

Bt cotton: A variety containing genes from the bacterium, *Bacillus thuringiensis*, that confer resistance to certain lepidopterous insect pests such as tobacco budworm. Abbreviated **B** or **BG** in a variety name. **BII** or **B2** indicates that the variety carries a second *Bt* gene.

CCC: Commodity Credit Corporation, an entity administered by the Farm Services Agency of the USDA.

Color: See *HVI Color Grade*.

Conventional tillage: Systems in which the entire surface layer of soil is mixed or inverted by plowing, power tilling, or multiple disking before planting. Conventional tillage systems may also involve inter-row cultivation after planting.

CST: County Standard Test of cotton.

CV: Coefficient of variation. It is a statistical estimate of experimental variability, calculated as the standard deviation divided by the mean, and expressed as a percentage. A relatively low CV indicates greater experimental precision.

DAP: Days after planting.

Earliness: A measure of how rapidly a cotton crop reaches maturity. Relative earliness of varieties can be measured by the heat units needed to mature the highest harvestable boll. Earliness is under genetic control but is strongly influenced by crop management.

Gin turnout: Weight of lint as a percent of seedcotton weight, which is composed of lint, seed, trash, and excess moisture.

Heat Units: A measure of thermal time used to describe crop growth and development. Also abbreviated as **GDD** (growing degree days) or **DD60s** (degree-days above a threshold of 60 F).

HVI: High Volume Instrument measurement of fiber length, strength, Micronaire, length uniformity, trash, and color.

HVI Color Grade: Cotton color grade is a function of white reflectance (Rd) and yellowness (+b) of the lint sample. The HVI color code identifies the quadrant of the Nickerson-Hunter cotton colorimeter diagram in which Rd and +b values intersect (USDA, 1999). Color may be affected by moisture and temperature after boll opening, during harvest, ginning or storage.

HNR: Height-to-node ratio of the main stem, a measure of vegetative vigor.

Leaf Grade: The classer's leaf grade is a visual estimate of the amount of cotton plant leaf particles in a sample of lint. There are seven leaf grades represented by physical standards, plus a below grade designation. See *Trash*.

Length: Average fiber length of the longer one-half of the fibers sampled, in hundredths of an inch. Fiber length is under strong genetic control, but may be reduced by environmental stress, nutrient deficiency, or fiber breakage. Staple expresses fiber length in 32nds of an inch.

Length (32nds)	Length (Inches)	Length (32nds)	Length (Inches)
24	0.79 & shorter	36	1.11 – 1.13
26	0.80 – 0.85	37	1.14 – 1.17
28	0.86 – 0.89	38	1.18 – 1.20
29	0.90 – 0.92	39	1.21 – 1.23
30	0.93 – 0.95	40	1.24 – 1.26
31	0.96 – 0.98	41	1.27 – 1.29
32	0.99 – 1.01	42	1.30 – 1.32
33	1.02 – 1.04	43	1.33 – 1.35
34	1.05 – 1.07	44 & +	1.36 & +
35	1.08 – 1.10		

Source: USDA (1999)

Lint yield: Weight of lint harvested per unit ground area.

Liberty Link: Designation in a variety name that indicates resistance to glufosinate herbicide.

LSD: Least significant difference. It is a statistical estimate of the smallest difference between two means that are significantly different at a fixed *P*-value (usually 0.05).

Micronaire: A measure of fiber fineness or maturity. An airflow instrument measures the air permeability of a given mass of cotton lint compressed to a fixed volume. Low "mike" values indicate finer or less mature fibers. Mike is strongly influenced by boll load, leaf retention and environmental conditions (especially moisture supply) during boll maturation. Abbreviated **Mike** or **Mic**. No decimal point is used by the USDA (1999) in reporting micronaire values, while others report values in tenths of units.

Market Value	HVI Micronaire
Low discount range	34 and below
Base range	35 – 36
Premium range	37 – 42
Base range	43 – 49
High discount range	50 and above

Source: USDA (1999)

NACB: Nodes above cracked boll. A measure of plant maturity measured by the number of nodes from the highest first-position cracked boll to the node of the highest harvestable boll.

NAWF: Nodes above white flower. A measure of the number of main-stem nodes above the uppermost white flower at first position, indicating relative crop maturity. An average NAWF count of 5 is used as a reference point of physiological cutout or last effective boll population.

No-till: A system in which a crop is planted directly into a seedbed not tilled since the previous crop, and only the immediate seed zone is disturbed during planting. Other surface residues are not moved, and weed control is accomplished primarily with herbicides.

OVT: Official variety trial. A replicated small-plot test conducted at several locations to evaluate the adaptation of the most promising commercial cultivars for Tennessee.

P-value: Observed significance level in an analysis of variance. It estimates the probability of error in concluding that differences truly exist among treatments (varieties).

RCB: Randomized complete block. An experimental design in which all treatments (varieties) are randomly assigned to plots in separate blocks (replications) in the field.

Rd and +b: Measures of white reflectance (%) and of yellow pigmentation (Hunter's scale), respectively, in a sample of lint. Lower Rd values indicate grayer samples, while higher +b values indicate yellower samples. Field weathering can decrease reflectance, while excess moisture in storage can cause yellowing.

Roundup Ready®: A variety containing genes that confer resistance to glyphosate herbicide that may be sprayed topically until the fifth true leaf reaches the size of a quarter. Subsequent glyphosate applications must be directed towards the base of the plant. Usually abbreviated **R** or **RR** in a variety name.

Roundup Ready Flex®: A variety containing genes that confer resistance to glyphosate herbicide that may be sprayed topically beyond the fifth true leaf stage. Usually abbreviated **F** or **RF** in a variety name.

Seedcotton: Lint plus seed, trash and excess moisture.

Staple: A traditional term applied to lengths of fiber that require spinning or twisting in the manufacture of yarn. Staple also refers to the average length of the bulk fibers measured in 32nds of one inch. Cotton fiber considered with regard to its length.

short staple : less than 25 mm (<0.98 inches)
medium staple : 25 to 30 mm (0.98–1.18 inches)
long staple : 30 to 37 mm (1.18-1.46 inches)
extra long staple : 37mm and above (>1.46 inches)

Strength: Force required to break a bundle of fibers one tex unit in size. A tex is the weight in grams of 1,000 meters of fiber. HVI clamp jaw spacing is $\frac{1}{8}$ inch. Fiber strength is under strong genetic control, but may be reduced by nutrient deficiency or stress.

Strength category	HVI Strength (grams per tex)
Very strong	31 and above
Strong	29 – 30
Intermediate	26 – 28
Weak	24 – 25
Very weak	23 and below

Source: USDA (1999)

Transgenic variety: A variety containing genes from dissimilar species or other foreign sources that confer desirable traits such as insect or herbicide resistance.

Trash: Percentage of the sample surface area covered by non-lint materials, as determined by a video scanner. Typical sources of trash include leaf fragments and bark. HVI trash measurement is correlated to a hand classer's leaf grade:

Classer's leaf grade	HVI Trash Measurement	
	4-year avg ¹ %	1996 crop ² reading
1	0.12	01
2	0.20	02
3	0.33	03
4	0.50	05
5	0.68	06
6	0.92	08
7	1.21	10
8	--	13

Sources: ¹ (USDA, 1999). ² (USDA, 1997).

Uniformity: Length uniformity is the ratio between the mean length and the upper-half mean length of the fibers, expressed as a percentage. Also referred to as the length uniformity index.

Uniformity group	Length uniformity index
Very high	86 and above
High	83 – 85
Intermediate	80 – 82
Low	77 – 79
Very low	76 and below

Source: USDA (1999)

Widestrike: A variety containing a pair of genes from the bacterium, *Bacillus thuringiensis*, that confer resistance to certain lepidopterous insect pests such as tobacco budworm. Sometimes abbreviated **W** in a variety name.

REFERENCES CITED

USDA. 1997. Cotton Classification Results -- Understanding the Data. Agricultural Marketing Service, Cotton Div. Rev. 5/97. 12 pp.

USDA. 1999. The Classification of Cotton. Agricultural Marketing Service, Agric. Handbook 566. Rev. 1/99. Washington, DC. 23 pp.

PB1742-600-1/09

Programs in agriculture and natural resources, 4-H youth development, family and consumer sciences, and resource development.
University of Tennessee Institute of Agriculture, U.S. Department of Agriculture and county governments cooperating.
UT Extension provides equal opportunities in programs and employment.