

# COTTON VARIETIES FOR LOUISIANA – 2005

LSU AgCenter

## INTRODUCTION

Each year, scientist at the LSU AgCenter test commercial cotton varieties at four locations throughout the state representative of the cotton growing regions in Louisiana. The trial is conducted at the Red River Research Station in Bossier City, the Dean Lee Research Station in Alexandria, the Macon Ridge Research Station in Winnsboro, and the Northeast Research Station in St. Joseph. Varieties are grown using practices that follow AgCenter recommendations and mimic commercial operations as closely as possible. Trials are replicated four times at each location and data are compiled for one, two, and three-year average performance.

## CHOOSING VARIETIES

Choosing a cotton variety is perhaps the most important single decision a producer can make in any year. Variety selection has become increasingly important since the introduction of transgenic cottons and concurrent increases in seed costs and technology fees. Moreover, variety selection is the one decision a producer makes that is not influenced by weather or other environmental factors. Therefore, choosing a high yielding, good quality variety adapted to local growing conditions is of tremendous importance.

Choosing a cotton variety can be difficult and the rapid introduction of newer, transgenic varieties complicates the process. The more informed the decision the better; therefore, this publication strives to provide as much information as possible to growers concerning cotton variety performance over a wide range of conditions. The information reported concerning measured performance of cotton varieties in Louisiana should be extremely useful as a primary source of information for choosing the varieties.

One cotton variety is not adaptable to all conditions or production practices. Growers are strongly encouraged to spread their risks by growing at least three or four different varieties on their farm. The bulk of a grower's acreage should be devoted to proven varieties and newer varieties should be tried only on a limited basis until further experience is gained.

## FIBER PROPERTIES

Fiber quality is of increasing importance in marketing cotton and choosing varieties. As the domestic textile industry has shrunk, more US cotton is being exported for use by overseas mills who generally demand higher quality cotton. The quality of Louisiana cotton has been a concern in recent years, particularly high micronaire. While premiums are small, discounts for high micronaire and other factors can be significant. Variety selection plays the largest role in fiber properties and is increasingly important for US cotton to maintain and increase share in the world market.

Fiber parameters reported were determined using the same High Volume Instrumentation (HVI) classing system utilized in a USDA classing office. The physical properties staple length (reported as the upper half mean or UHM), fiber strength, uniformity index, and micronaire are reported. Color grades can be influenced by defoliation and moduling of seedcotton and are therefore not reported in these data.

## USING THE DATA

Yield should be the primary factor when choosing a variety, followed by fiber quality and maturity. Top yielding varieties should be considered first. There is often no statistical difference between the top yielding varieties in a given trial. The least significant difference (LSD) reported below each table is the smallest difference in yield that can be considered a "true" difference. The most important factor is NOT the

absolute number reported for a cotton variety's yield or fiber quality. The most important question to answer is "How did a variety yield RELATIVE to other varieties in the trial?" Another important number to look for is the test average or mean. Considering a variety's performance relative to the average for the entire trial will help identify varieties that are above average at a given location.

Cotton varieties should be chosen only after considering their performance over multiple locations and years. Superior performance in one year can often indicate a good variety, but superior performance over multiple years indicates consistency and reliability. Varieties are now introduced at a rapid pace and have shorter life spans than in the past. Data are often not available for multiple years. Therefore, it is imperative to consider performance over several locations and years if possible.

Grower experience with a past variety is important for several reasons. Cotton varieties have differing growth habits and can be locally adapted to a small area and not another. Experience with a variety should be a factor, but newer varieties that perform well in trials should be considered as well.

### **RECOMMENDED AND PROMISING VARIETIES**

The LSU AgCenter identifies consistently high performing varieties at each location as recommended or promising. In order to be listed as recommended, a variety's three-year average yield must be within 90% of the average of the top three varieties in the trial. Varieties can be listed as promising after two years of testing if the two-year average yield is within 95% of the top three varieties on a two-year basis.

To identify promising varieties that are new to the market and which have only one year of testing in the official variety trials, an across location analysis of variance was done. New entries that yielded within one Least Significant Difference ( $LSD_{0.05}$ ) of the top yielding entry in the across location analysis were identified as promising.

The following table lists recommended and promising varieties for 2005. Not all varieties have met the criteria at all locations; therefore you should closely inspect the data tables for performance at a location most similar to your own farm.

<b>Recommended</b>	<b>Promising After Two Years</b>	<b>Promising After One Year</b>
Beltwide BCG 28R	Deltapine DP 393	Deltapine DP 488 BG/RR
Beltwide BCG 295	Deltapine DP 432 RR	Deltapine DP 543 BGII/RR
Deltapine DP 436 RR	Deltapine DP 434 RR	†OAX 303*
Deltapine DP 444 BG/RR	FiberMax FM 960 BR	Stoneville ST 3636B2R
Deltapine DP 451 BG/RR	†OAX 303	Stoneville ST 4575BR
Deltapine DP 493	Stoneville ST 4646B2R	Stoneville ST 5242BR**
Deltapine DP 555 BG/RR	Stoneville ST 5242BR	
Deltapine PM 1218 BG/RR	Stoneville ST 5303R	
Stoneville ST 4793R		
Stoneville ST 4892BR		
Stoneville ST 5599BR		
Suregrow 215 BR		

\*OAX 303 was tested as medium maturing variety in 2004 only

\*\*Stoneville ST 5242BR was tested as an early maturing variety in 2004 only

†Experimental. Seed of this variety may or may not be available in 2005.

## SEEDING RATE AND STAND

Two to three plants per row foot is currently thought to be the ideal final plant population in 30- to 40-inch rows. To achieve this population, seeding rates should be slightly higher due to less than 100% germination. Most cotton seed sold will have at least an 80% germination reported on the bag. This is the result of the warm germination test. Field conditions, however, are typically more adverse than laboratory test. The cool germination test can approximate adverse field conditions and is a measure of seed vigor. Results from the cool germination test are not reported on the bag but can be obtained from the seed company. Growers are urged to find this information. Being aware of the results of the cool germination test is more important than determining what is actually a good or bad cool germ. For example, a seed lot with 85% cool germ is more vigorous than one with a 65% cool germ. If the 65% cool germ lot is planted in good, warm conditions, however, overall germination is likely to be as high as the 85% lot. Under adverse conditions, the 85% lot is likely to germinate at a much higher rate than the 65% lot. A somewhat arbitrary division of the cool germ test results is shown in the following table:

<b>COOL GERMINATION %</b>	<b>VIGOR</b>
<b>&gt;80</b>	<b>Excellent</b>
<b>65-80</b>	<b>Good</b>
<b>50-65</b>	<b>Acceptable</b> – use special care
<b>&lt;50</b>	<b>Poor</b> – most companies will not sell this seed

Remember, a cotton seed is a living organism that is used as delivery mechanism for genetic traits, transgenic technology, and often seed treatments. Care should be taken to preserve seed quality and plant high quality seed to insure adequate plant stand.

### Table of Contents

#### **Average performance across all Louisiana Locations**

Early maturing.....	p. 4
Medium maturing.....	p. 6
<b>Alexandria silt loam</b> ( <i>Dean Lee Research Station</i> )	
Early Maturing.....	p. 8
Medium Maturing.....	p. 10
<b>Alexandria clay</b> ( <i>Dean Lee Research Station</i> )	
Early maturing.....	p. 12
Medium maturing.....	p. 14
<b>Bossier City</b> ( <i>Red River Research Station</i> )	
Early maturing.....	p. 15
Medium Maturing.....	p. 17
<b>St. Joseph silt loam</b> ( <i>Northeast Research Station</i> )	
Early maturing.....	p. 19
Medium maturing.....	p. 21
<b>St Joseph clay</b> ( <i>Northeast Research Station</i> )	
Early maturing.....	p. 23
Medium maturing.....	p. 25
<b>Winnsboro Irrigated</b> ( <i>Macon Ridge Research Station</i> )	
Early maturing.....	p. 27
Medium maturing.....	p. 29
<b>Winnsboro Non-Irrigated</b> ( <i>Macon Research Station</i> )	
Early maturing.....	p. 31
Medium maturing.....	p. 33

# ALL LOUISIANA LOCATIONS

**TABLE 1. One-year average performance of early maturing cotton varieties across all Louisiana locations (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
‡Stoneville ST 5599BR	1427*	38.6	4.7	1.14	31.1	83.3
‡Deltapine DP 555 BG/RR	1407*	41.5	4.6	1.14	30.4	83.2
†OAX 303	1386*	40.6	4.9	1.13	30.7	83.9
Deltapine DP 393	1380*	38.8	4.7	1.18	33.0	84.5
Stoneville ST 5242BR	1375*	38.0	4.7	1.12	29.8	83.8
Stoneville ST 4575BR	1359*	38.0	4.7	1.13	32.3	83.8
Stoneville ST 3636B2R	1354*	37.6	4.6	1.15	29.4	83.4
Deltapine DP 432 RR	1332	38.3	4.7	1.13	31.5	83.7
Stoneville ST 4892BR	1326	38.7	4.7	1.13	31.3	84.0
Deltapine DP 444 BG/RR	1312	38.7	4.3	1.15	31.0	84.0
Deltapine DP 449 BG/RR	1304	38.1	4.6	1.15	33.1	83.9
Deltapine PM 1218 BG/RR	1296	38.0	4.9	1.10	29.1	83.5
Stoneville ST 4646B2R	1292	37.4	4.6	1.14	30.8	83.4
FiberMax FM 960 BR	1286	37.5	4.6	1.13	33.9	83.6
Stoneville ST 4686R	1281	37.7	4.6	1.15	30.4	83.4
Deltapine DP 445 BG/RR	1278	38.9	4.7	1.15	32.7	84.1
Beltwide BCG 28 R	1269	38.5	4.8	1.15	29.6	83.6
Stoneville ST 4793R	1261	38.3	4.9	1.12	30.9	83.7
Deltapine DP 434 RR	1258	39.7	4.5	1.18	29.8	83.8
Deltapine DP 455 BG/RR	1248	39.5	4.3	1.16	32.3	83.2
FiberMax FM 960 RR	1237	38.1	4.3	1.17	32.6	83.8
Deltapine DP 451 BG/RR	1230	35.2	4.7	1.15	29.4	84.0
PhytoGen PHY 410 R	1216	36.5	4.7	1.15	32.1	84.4
FiberMax FM 966 LL	1202	36.9	4.5	1.15	34.1	84.1
FiberMax FM 958 LL	1200	37.1	4.6	1.17	33.8	84.1
FiberMax FM 960 B2R	1194	38.0	4.6	1.19	32.9	84.0
Deltapine DP 424 BGII/RR	1148	35.1	4.6	1.14	30.4	84.0
Deltapine DP 436 RR	1124	34.5	4.6	1.15	29.4	83.8
FiberMax FM 819 RR	1095	38.6	4.3	1.17	32.2	84.5
Beltwide BCG 295	1058	35.3	4.3	1.19	32.2	84.0
<b>Mean</b>	<b>1271</b>	<b>38.0</b>	<b>4.6</b>	<b>1.15</b>	<b>31.4</b>	<b>83.8</b>
<b>LSD<sub>0.05</sub></b>	80	0.5	0.1	0.01	0.6	0.3
<b>CV (%)</b>	11.4	2.6	1.6	0.7	3.4	4.1

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 2. Two-year average performance of early maturing cotton varieties across all Louisiana locations (2003-2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
‡Stoneville ST 5599BR	1405*	40.0	4.7	1.12	30.3	83.1
‡Deltapine DP 555 BG/RR	1382*	43.0	4.6	1.12	29.6	82.8
†OAX 303	1372*	42.3	4.8	1.11	29.9	83.7
Deltapine DP 393	1327	40.3	4.6	1.15	32.6	84.3
Stoneville ST 4892BR	1307	40.3	4.7	1.10	30.8	83.9
Deltapine PM 1218 BR	1302	39.8	4.9	1.08	28.6	83.4
Deltapine DP 444 BG/RR	1300	40.4	4.2	1.13	30.4	83.9
FiberMax FM 960 BR	1297	39.0	4.5	1.12	33.5	83.6
Deltapine DP 432 RR	1295	39.8	4.6	1.11	31.3	83.7
Deltapine DP 434 RR	1268	41.1	4.4	1.16	29.5	83.8
Deltapine DP 449 BG/RR	1255	39.1	4.5	1.12	32.1	83.4
Beltwide BCG 28 R	1237	39.9	4.8	1.13	29.1	83.4
FiberMax FM 958 LL	1235	38.8	4.6	1.16	33.0	84.0
Stoneville ST 4793R	1233	40.0	4.8	1.09	30.3	83.6
Stoneville ST 4646B2R	1225	38.7	4.5	1.12	30.0	83.3
Deltapine DP 451 BG/RR	1213	36.8	4.7	1.13	28.9	83.9
Deltapine DP 424 BGII/RR	1170	36.8	4.6	1.11	29.7	83.8
PhytoGen PHY 410 R	1169	38.4	4.6	1.12	31.9	84.3
FiberMax FM 819 RR	1140	40.4	4.4	1.16	32.1	84.5
Deltapine DP 436 RR	1123	36.1	4.6	1.14	29.0	83.8
Beltwide BCG 295	1099	36.9	4.3	1.17	31.7	83.9
<b>Mean</b>	<b>1254</b>	<b>39.4</b>	<b>4.6</b>	<b>1.12</b>	<b>30.7</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	73	0.5	0.1	0.01	0.4	0.3
<b>CV (%)</b>	15.1	3.6	7.1	2.2	3.7	0.9

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 3. Three-year average performance of early maturing cotton varieties across all Louisiana locations (2002-2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
Deltapine PM 1218 BG/RR	1301*	39.9	4.9	1.09	28.9	83.6
Stoneville ST 4892BR	1292*	40.5	4.9	1.11	31.1	84.1
Beltwide BCG 28 R	1257*	40.4	4.9	1.13	29.5	83.7
Stoneville ST 4793 R	1207	40.3	4.9	1.10	30.8	83.8
Deltapine DP 451 BG/RR	1194	36.7	4.7	1.14	29.2	84.1
Beltwide BCG 295	1131	37.3	4.4	1.18	31.9	84.2
Deltapine DP 436 RR	1108	36.0	4.7	1.14	29.3	84.0
<b>Mean</b>	<b>1213</b>	<b>38.7</b>	<b>4.8</b>	<b>1.13</b>	<b>30.1</b>	<b>84.0</b>
<b>LSD<sub>0.05</sub></b>	67	0.5	0.1	0.01	2.0	1.7
<b>CV (%)</b>	17.8	0.8	0.5	0.73	0.4	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are recommended in 2005.

**TABLE 4. One-year average performance of medium maturing cotton varieties across all Louisiana locations (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
Deltapine DP 555 BG/RR	1536*	35.0	4.6	1.14	30.4	82.8
Stoneville ST 5599BR	1504*	32.4	4.8	1.14	31.4	83.5
†OAX 303	1462*	33.9	4.9	1.13	30.9	84.0
Deltapine DP 493	1433*	34.4	4.7	1.15	31.9	83.1
‡Stoneville ST 4892BR	1408*	32.2	4.9	1.14	31.4	83.9
Stoneville ST 5242BR	1394*	31.4	4.6	1.12	30.1	83.8
‡Deltapine DP 444 BG/RR	1392*	32.0	4.3	1.15	31.0	84.1
Deltapine DP 488 BG/RR	1385*	32.8	4.5	1.19	32.9	83.8
Deltapine DP 494 RR	1361*	33.1	4.6	1.17	34.1	84.0
Deltapine DP 543 BGII/RR	1359*	32.0	4.7	1.15	31.6	83.5
Stoneville ST6636BR	1358*	30.7	4.7	1.18	33.5	84.3
Stoneville ST5303R	1336	31.5	4.7	1.12	34.2	84.3
DynaGro N2429	1316	30.6	4.9	1.15	33.7	84.8
‡Deltapine DP 451 BG/RR	1303	29.3	4.7	1.16	29.6	84.2
FiberMax 991 BR	1267	31.0	4.6	1.17	35.4	84.0
Stoneville ST5454B2R	1260	30.2	4.7	1.15	32.2	83.5
FiberMax 832 LL	1256	30.7	4.1	1.21	32.9	84.2
†Deltapine DPLX 02T57 R	1253	31.1	4.7	1.12	31.8	83.7
FiberMax FM 800 BR	1230	31.2	4.1	1.21	33.8	84.4
FiberMax 991 B2R	1217	29.9	4.3	1.20	33.8	84.1
Stoneville STX 6848 R	1206	30.6	4.8	1.17	34.9	84.6
FiberMax FM 800 RR	1199	31.5	4.4	1.18	34.3	85.0
Beltwide BCG 245 R	1195	31.5	4.5	1.13	31.7	83.4
FiberMax 800 B2R	1189	31.1	4.2	1.21	33.3	84.5
<b>Mean</b>	<b>1323</b>	<b>31.7</b>	<b>4.6</b>	<b>1.16</b>	<b>32.5</b>	<b>84.0</b>
<b>LSD<sub>0.05</sub></b>	192	0.5	0.1	0.01	0.5	0.3
<b>CV (%)</b>	16.8	3.2	3.9	1.6	3.0	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 5 . Two-year average performance of medium maturing cotton varieties across all Louisiana locations (2003-2004).**

<b>Variety</b>	<b>Lint</b>	<b>Lint</b>	<b>Mike</b>	<b>UHM</b>	<b>Strength</b>	<b>UI</b>
	lb/acre	percent		inches	g/tex	percent
Deltapine DP 555 BG/RR	1478*	43.5	4.6	1.13	30.0	82.7
Stoneville ST 5599BR	1464*	40.3	4.7	1.13	30.9	83.3
Deltapine DP 493	1454*	43.1	4.8	1.13	31.4	83.1
Stoneville ST 5242BR	1398*	40.2	4.5	1.11	29.4	83.6
‡Stoneville ST 4892BR	1347	40.3	4.9	1.11	31.1	83.9
Deltapine DP 494 RR	1294	41.4	4.6	1.16	33.8	84.0
FiberMax 832 LL	1262	38.5	4.1	1.20	32.8	84.4
FiberMax 991 BR	1250	38.5	4.6	1.15	34.8	83.9
Stoneville ST5303R	1247	39.0	4.7	1.10	33.4	84.3
FiberMax FM 800 BR	1246	39.0	4.1	1.21	33.9	84.7
‡Deltapine DP 451 BG/RR	1230	36.5	4.7	1.14	29.2	84.1
<b>Mean</b>	<b>1333</b>	<b>40.0</b>	<b>4.6</b>	<b>1.14</b>	<b>31.9</b>	<b>83.8</b>
<b>LSD<sub>0.05</sub></b>	87	0.6	0.1	0.01	0.5	0.3
<b>CV (%)</b>	17.1	3.7	6.2	2.2	3.8	0.9

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

**TABLE 6. Three-year average performance of medium maturing cotton varieties across all Louisiana locations (2002-2004).**

<b>Variety</b>	<b>Lint</b>	<b>Lint</b>	<b>Mike</b>	<b>UHM</b>	<b>Strength</b>	<b>UI</b>
	lb/acre	percent		inches	g/tex	percent
Deltapine DP 555 BG/RR	1516*	43.8	4.7	1.13	30.2	82.8
Deltapine DP 493	1483*	43.4	4.8	1.14	31.9	83.2
Stoneville ST 5599BR	1469*	40.4	4.8	1.13	31.3	83.4
‡Stoneville ST 4892 BR	1324	40.5	5.0	1.11	31.4	83.9
<b>Mean</b>	<b>1448</b>	<b>42.0</b>	<b>4.8</b>	<b>1.12</b>	<b>31.2</b>	<b>83.3</b>
<b>LSD<sub>0.05</sub></b>	83	0.4	0.9	0.01	0.4	0.3
<b>CV (%)</b>	18.1	3.1	5.7	2.5	4.1	1.13

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended for 2005.

‡Variety included for comparison purposes only.

## ALEXANDRIA SILT LOAM – EARLY MATURING

**TABLE 7. One-year performance of early maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
‡Deltapine DP 555 BG/RR	1461*	40.1	4.6	1.15	32.3	83.6
<b>Deltapine PM 1218 BG/RR</b>	1436*	36.8	4.9	1.12	30.3	83.7
<b>Stoneville ST 3636B2R</b>	1412*	36.9	4.9	1.14	30.1	83.4
<b>Stoneville ST 4575BR</b>	1412*	37.0	4.6	1.14	34.3	84.0
<b>Stoneville ST 4892BR</b>	1386*	37.4	4.7	1.13	32.2	84.2
‡Stoneville ST 5599BR	1374*	38.0	5.0	1.13	32.2	83.4
Deltapine DP 434 RR	1340*	38.5	4.4	1.19	30.4	84.4
FiberMax FM 960 RR	1321*	36.8	4.3	1.16	32.9	83.7
†OAX 303	1303*	39.7	4.8	1.15	32.1	84.1
<b>Stoneville ST 5242BR</b>	1300*	36.7	4.9	1.13	30.4	83.8
PhytoGen PHY 410 R	1282*	36.0	4.8	1.16	33.2	84.6
Deltapine DP 449 BG/RR	1269*	36.8	4.8	1.15	34.3	84.2
Deltapine DP 393	1240*	37.2	4.7	1.19	34.2	85.0
<b>Deltapine DP 444 BG/RR</b>	1233*	37.5	4.4	1.15	31.9	84.2
Stoneville ST 4793R	1216*	37.0	4.9	1.11	32.1	84.0
Deltapine DP 436 RR	1197*	36.7	4.6	1.16	30.6	84.4
FiberMax FM 960 B2R	1197*	33.1	4.7	1.19	34.5	84.3
Deltapine DP 445 BG/RR	1196*	37.1	4.6	1.16	34.5	84.9
Deltapine DP 432 RR	1188*	37.7	4.4	1.14	33.0	83.8
Deltapine DP 424 BGII/RR	1181*	34.0	4.6	1.13	31.3	84.6
Stoneville ST 4646B2R	1177*	36.6	4.7	1.14	32.1	83.3
Stoneville ST 4686R	1170*	36.0	4.8	1.15	31.4	83.3
<b>Deltapine DP 451 BG/RR</b>	1149	35.0	4.7	1.16	29.6	83.6
FiberMax FM 966 LL	1129	35.4	4.6	1.17	35.4	84.2
<b>Beltwide BCG 28R</b>	1120	36.9	5.0	1.14	31.2	83.7
Deltapine DP 455 BG/RR	1109	39.3	4.5	1.17	33.2	83.7
<b>FiberMax FM 960 BR</b>	1100	36.1	4.6	1.13	36.1	84.0
FiberMax FM 958 LL	1085	35.7	4.7	1.16	34.8	84.5
FiberMax FM 819 RR	1018	37.2	4.3	1.17	34.0	84.8
Beltwide BCG 295	916	33.5	4.1	1.19	32.9	84.1
<b>Mean</b>	<b>1231</b>	<b>36.7</b>	<b>4.6</b>	<b>1.15</b>	<b>32.6</b>	<b>84.0</b>
<b>LSD<sub>0.05</sub></b>	292	1.5	0.3	0.03	1.4	0.7
<b>CV (%)</b>	14.4	2.9	5.0	1.7	3.1	0.6

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.



**TABLE 8. Two-year performance of early maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2003 & 2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine PM 1218 BG/RR</b>	1522*	40.4	4.8	1.10	30.1	83.3
‡Deltapine DP 555 BG/RR	1498*	43.2	4.5	1.16	32.2	83.4
<b>Stoneville ST 4892BR</b>	1433*	40.4	4.6	1.12	31.9	83.5
‡Stoneville ST 5599BR	1422*	38.9	4.6	1.13	31.8	83.2
<b>FiberMax FM 960 BR</b>	1398*	39.7	4.3	1.13	35.2	83.4
FiberMax FM 819 RR	1376*	40.5	4.3	1.16	33.3	84.2
†OAX 303	1339*	42.2	4.6	1.14	31.4	83.9
<b>Deltapine DP 444 BG/RR</b>	1331	40.3	3.9	1.16	32.1	83.9
<b>Deltapine DP 451 BG/RR</b>	1294	38.3	4.5	1.16	30.5	83.8
Deltapine DP 449 BG/RR	1289	38.4	4.3	1.14	33.4	83.5
Deltapine DP 434 RR	1278	40.5	4.3	1.17	30.4	83.4
FiberMax FM 958 LL	1271	38.2	4.5	1.19	33.7	84.0
Deltapine DP 432 RR	1265	40.2	4.3	1.12	31.8	83.4
PhytoGen PHY 410 R	1223	38.4	4.6	1.14	32.9	84.4
Deltapine DP 393	1212	39.6	4.4	1.16	32.7	84.4
Stoneville ST 4793R	1209	39.5	4.7	1.10	30.9	83.0
<b>Beltwide BCG 28R</b>	1201	38.9	4.8	1.14	30.9	83.6
Deltapine DP 436 RR	1193	36.4	4.4	1.15	30.0	83.8
Deltapine DP 424 BGII/RR	1186	37.0	4.5	1.11	30.3	83.7
Stoneville ST 4646B2R	1174	41.2	4.4	1.12	30.6	82.9
Beltwide BCG 295	1115	36.2	4.0	1.18	32.4	83.7
<b>Mean</b>	<b>1299</b>	<b>39.4</b>	<b>4.4</b>	<b>1.14</b>	<b>31.9</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	190	1.4	0.2	0.02	1.2	0.7
<b>CV (%)</b>	11.2	3.7	5.2	1.8	4.0	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 9. Three-year performance of early maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2002, 2003 & 2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
<b>Deltapine PM 1218 BG/RR</b>	1550*	40.3	4.9	1.09	29.8	83.2
<b>Stoneville ST 4892 BR</b>	1459*	40.4	4.8	1.11	31.7	83.5
<b>Deltapine DP 444 BG/RR</b>	1407	40.5	4.0	1.14	31.4	83.7
<b>Beltwide BCG 28R</b>	1385	40.3	4.9	1.14	31.0	83.5
<b>Deltapine DP 451 BG/RR</b>	1333	37.6	4.5	1.15	30.3	83.6
Stoneville ST 4793R	1281	39.4	4.8	1.10	30.8	83.0
Deltapine DP 436 RR	1211	36.0	4.6	1.15	30.1	83.9
Beltwide BCG 295	1200	36.6	4.1	1.18	32.0	83.5
<b>Mean</b>	<b>1355</b>	<b>38.9</b>	<b>4.6</b>	<b>1.13</b>	<b>30.9</b>	<b>83.5</b>
<b>LSD<sub>0.05</sub></b>	97	1.1	0.2	0.01	0.9	0.5
<b>CV (%)</b>	8.5	3.7	4.9	1.7	3.7	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are recommended in 2005.

# ALEXANDRIA SILT LOAM – MEDIUM MATURING

**TABLE 10. One-year performance of medium maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 555 BG/RR</b>	1576*	41.1	4.7	1.15	30.8	83.3
‡Stoneville ST 4892BR	1321*	37.3	4.9	1.14	32.5	84.2
<b>Stoneville ST5242BR</b>	1270	37.5	4.7	1.14	31.0	83.5
Stoneville ST6636BR	1252	36.1	4.9	1.18	34.6	84.7
Deltapine DP 494 RR	1247	38.3	4.7	1.17	33.8	84.3
<b>Stoneville ST 5599BR</b>	1230	38.1	5.0	1.14	32.3	83.6
<b>Deltapine 488 BG/RR</b>	1221	37.6	4.7	1.19	32.9	83.6
FiberMax FM 800 BR	1190	36.7	4.1	1.23	34.5	84.5
‡Deltapine DP 451 BG/RR	1166	33.8	4.9	1.12	29.5	84.2
FiberMax FM 800 RR	1149	36.8	4.4	1.19	36.1	85.5
<b>†OAX 303</b>	1141	41.4	4.9	1.14	31.1	83.9
FiberMax 991 BR	1123	36.6	4.8	1.17	36.5	84.5
FiberMax 800 B2R	1121	36.9	4.1	1.22	35.3	84.8
<b>Deltapine DP 543 BGII/RR</b>	1108	37.5	4.9	1.16	32.7	83.7
FiberMax 991 B2R	1105	35.4	4.5	1.21	35.1	84.4
‡Deltapine DP 444 BG/RR	1071	37.8	4.5	1.14	31.6	84.1
Stoneville ST5303R	1050	37.3	4.8	1.12	35.4	84.5
DynaGro N2429	1044	35.7	4.9	1.17	34.3	85.0
Beltwide BCG 245 R	1026	37.7	4.8	1.14	32.9	83.9
†Deltapine DPLX 02T57R	997	36.6	5.0	1.13	32.3	83.7
Stoneville ST5454B2R	983	35.1	4.8	1.15	32.9	83.7
Stoneville ST6848R	980	35.4	5.0	1.17	35.5	84.6
<b>Deltapine DP 493</b>	964	40.3	4.7	1.14	32.1	82.5
FiberMax 832 LL	942	36.1	4.0	1.22	33.5	84.2
<b>Mean</b>	<b>1137</b>	<b>37.2</b>	<b>4.7</b>	<b>1.16</b>	<b>33.3</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	268	1.8	0.3	0.02	1.6	1.0
<b>CV (%)</b>	14.3	3.3	3.8	1.5	3.5	0.8

\*Not significantly different from highest yielder ( $p=0.05$ )

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 11. Two-year performance of medium maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2003 & 2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 555 BG/RR</b>	1621*	43.5	4.5	1.14	31.3	82.9
<b>Stoneville ST 5242BR</b>	1398*	39.9	4.5	1.14	30.5	83.7
FiberMax FM 800 BR	1362	38.9	3.9	1.23	34.3	84.6
<b>Stoneville ST 5599BR</b>	1351	39.5	4.6	1.15	32.3	83.4
<b>Deltapine DP 493</b>	1334	42.5	4.6	1.14	31.5	82.7
Deltapine DP 494 RR	1325	40.8	4.6	1.16	33.5	83.8
‡Stoneville ST 4892BR	1320	39.3	4.7	1.12	32.1	83.4
FiberMax 991 BR	1277	38.1	4.6	1.16	34.8	83.8
FiberMax 832 LL	1261	39.3	4.0	1.20	32.8	84.0
‡Deltapine DP 451 BG/RR	1230	36.7	4.6	1.15	30.1	83.6
Stoneville ST5303R	1152	38.3	4.6	1.13	33.4	84.0
<b>Mean</b>	<b>1330</b>	<b>39.7</b>	<b>4.5</b>	<b>1.16</b>	<b>32.4</b>	<b>83.6</b>
<b>LSD<sub>0.05</sub></b>	246	1.4	0.2	0.03	1.6	1.0
<b>CV (%)</b>	14.7	3.6	4.6	2.4	5.1	1.0

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

**TABLE 12. Three-year performance of medium maturing cotton varieties on a Norwood silt loam at Alexandria, LA (2002, 2003 & 2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 555 BG/RR</b>	1614*	43.7	4.6	1.14	30.9	82.7
<b>Stoneville ST 5599BR</b>	1409	39.8	4.6	1.14	32.1	83.0
<b>Deltapine DP 493</b>	1340	42.8	4.7	1.14	32.1	82.8
‡Stoneville ST 4892BR	1246	39.7	4.8	1.12	31.8	83.3
<b>Mean</b>	<b>1405</b>	<b>41.5</b>	<b>4.7</b>	<b>1.14</b>	<b>31.7</b>	<b>83.0</b>
<b>LSD<sub>0.05</sub></b>	119	0.7	NS	NS	1.4	NS
<b>CV (%)</b>	10.0	2.4	5.4	2.0	3.9	1.1

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended for 2005.

‡Variety included for comparison purposes only.

## ALEXANDRIA CLAY – EARLY MATURING

**TABLE 13. One-year performance of early maturing cotton varieties on a Moreland clay at Alexandria, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 3636B2R</b>	1505*	35.5	4.6	1.16	31.1	83.9
† <b>OAX 303</b>	1359*	41.3	5.1	1.17	32.6	84.6
<b>FiberMax FM 960 BR</b>	1265*	39.7	4.6	1.16	36.4	84.4
FiberMax FM 966 LL	1261*	36.5	4.3	1.18	36.2	85.1
<b>Deltapine DP 434 RR</b>	1239*	42.8	4.4	1.19	31.3	84.6
FiberMax FM 958 LL	1230*	38.4	4.5	1.18	35.8	84.8
‡Stoneville ST 5599BR	1214*	37.4	4.7	1.17	34.2	83.9
Deltapine DP 451 BG/RR	1205*	37.6	4.7	1.15	30.8	84.4
<b>Stoneville ST 4646B2R</b>	1184*	36.5	4.5	1.17	33.1	84.0
PhytoGen PHY 410 R	1181*	37.8	4.7	1.17	33.8	84.9
<b>Deltapine DP 393</b>	1179*	38.5	4.8	1.20	35.0	85.3
<b>Stoneville ST 5242BR</b>	1154*	40.9	4.7	1.14	32.0	84.2
FiberMax FM 960 RR	1153*	40.5	4.1	1.19	34.4	84.5
Stoneville ST 4793R	1132*	38.9	4.9	1.14	33.0	84.4
<b>Deltapine PM 1218 BG/RR</b>	1127*	40.0	5.0	1.19	30.4	84.0
FiberMax FM 960 BG2/RR	1106	38.8	4.4	1.14	34.7	84.4
‡Deltapine DP 555 BG/RR	1105	40.2	4.6	1.12	31.9	83.5
<b>Stoneville ST 4892BR</b>	1100	40.4	4.9	1.21	33.6	84.7
Beltwide BCG 295	1098	36.1	4.4	1.17	33.5	84.4
Deltapine DP 449 BG/RR	1088	37.5	4.9	1.16	34.7	84.5
Stoneville ST 4686R	1076	39.1	4.9	1.20	32.2	84.7
FiberMax FM 819 RR	1058	36.6	4.4	1.20	34.2	85.5
Deltapine DP 432 RR	1057	38.5	5.0	1.15	34.0	84.2
Beltwide BCG 28R	1031	36.1	4.9	1.18	32.1	84.1
<b>Stoneville ST 4575BR</b>	1027	38.1	4.8	1.16	35.4	84.5
<b>Deltapine DP 444 BG/RR</b>	1002	38.9	4.5	1.15	33.3	84.5
Deltapine DP 445 BG/RR	959	40.7	4.8	1.19	35.9	85.7
Deltapine DP 455 BG/RR	953	37.5	4.4	1.18	34.1	83.8
Deltapine DP 424 BGII/RR	861	34.0	4.7	1.16	32.2	84.6
Deltapine DP 436 RR	778	35.6	4.6	1.18	31.7	85.2
<b>Mean</b>	<b>1123</b>	<b>38.3</b>	<b>4.7</b>	<b>1.17</b>	<b>33.5</b>	<b>84.5</b>
<b>LSD<sub>0.05</sub></b>	380	3.6	0.2	0.02	1.3	1.3
<b>CV (%)</b>	23.9	6.6	3.7	1.23	2.8	2.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 14. Two-year performance of early maturing cotton varieties on a Moreland clay at Alexandria, LA (2003 & 2004).**

<b>Variety</b>	<b>Lint</b>	<b>Lint</b>
	lb/acre	percent
<b>Deltapine DP 434 RR</b>	1316	40.6
<b>Stoneville ST 4892BR</b>	1254	39.6
<b>Deltapine DP 393</b>	1246	38.5
<b>Stoneville ST 4646B2R</b>	1235	36.9
<b>FiberMax FM 960 BR</b>	1233	38.7
† <b>OAX 303</b>	1231	38.9
‡Deltapine DP 555 BG/RR	1230	40.9
<b>Deltapine DP 444 BG/RR</b>	1219	39.1
<b>Deltapine PM 1218 BG/RR</b>	1217	38.6
‡Stoneville ST 5599BR	1207	38.2
Stoneville ST 4793R	1196	38.4
Deltapine DP 432 RR	1194	37.2
Deltapine DP 449 BG/RR	1174	37.3
FiberMax FM 958 LL	1173	37.4
FiberMax FM 960 RR	1167	37.3
FiberMax FM 819 RR	1164	36.7
Deltapine DP 451 BG/RR	1145	35.8
PhytoGen PHY 410 R	1142	37.3
Beltwide BCG 28R	1114	37.7
Beltwide BCG 295	1078	36.0
Deltapine DP 424 BGII/RR	1031	34.5
Deltapine DP 436 RR	979	34.5
<b>Mean</b>	<b>1180</b>	<b>37.7</b>
<b>LSD<sub>0.05</sub></b>	NS	2.0
<b>CV (%)</b>	19.9	5.3

Varieties in **BOLDFACE** are listed as promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

## ALEXANDRIA CLAY – MEDIUM MATURING

**TABLE 15. One-year performance of medium maturing cotton varieties on a Moreland clay at Alexandria, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
DynaGro N2429	919*	33.7	5.1	1.18	34.9	85.0
<b>Stoneville ST 5599BR</b>	903*	35.7	4.6	1.17	33.9	83.8
<b>Deltapine DP 555 BG/RR</b>	886*	36.0	4.8	1.13	31.2	82.9
<b>Deltapine DP 493</b>	838*	38.4	4.8	1.16	34.0	83.7
FiberMax 991 BR	834*	33.3	4.8	1.16	36.6	84.0
<b>Deltapine 488 BG/RR</b>	805*	35.6	4.5	1.21	33.7	83.9
<b>Deltapine DP 543 BGII/RR</b>	791*	33.8	4.5	1.17	32.7	83.5
FiberMax FM 800 RR	775*	31.7	4.1	1.20	36.3	85.3
‡Deltapine DP 451 BG/RR	768*	31.0	4.8	1.16	29.6	84.2
FiberMax 832 LL	766*	32.4	4.0	1.23	35.0	84.1
Stoneville ST5242BR	738*	35.1	4.7	1.13	30.3	83.4
FiberMax 991 B2R	729*	31.8	4.3	1.20	33.8	84.0
<b>†OAX 303</b>	722*	37.2	5.2	1.14	32.7	84.0
Stoneville ST6636BR	716*	31.8	5.1	1.17	34.1	84.5
‡Stoneville ST 4892BR	706*	34.2	5.2	1.15	33.3	84.7
Deltapine DP 494 RR	699*	36.1	4.8	1.19	35.4	84.4
Beltwide BCG 245 R	679*	33.9	4.7	1.13	32.1	83.3
‡Deltapine DP 444 BG/RR	661	35.1	4.4	1.16	32.2	84.2
†Deltapine DPLX 02T57R	656	32.3	4.8	1.11	33.3	83.3
FiberMax FM 800 BR	638	32.6	3.9	1.24	36.0	84.7
Stoneville ST6848R	632	30.8	5.1	1.16	35.2	84.8
FiberMax 800 B2R	627	31.8	4.0	1.23	35.5	84.5
Stoneville ST5454B2R	562	29.7	4.7	1.14	32.7	83.2
Stoneville ST5303R	549	34.3	4.7	1.12	34.9	84.4
<b>Mean</b>	<b>733</b>	<b>33.7</b>	<b>4.6</b>	<b>1.17</b>	<b>33.7</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	257	1.6	0.3	0.02	1.4	0.9
<b>CV (%)</b>	24.8	3.4	4.1	1.4	2.9	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 16. Two-year performance of medium maturing cotton varieties on a Moreland clay at Alexandria, LA (2003 & 2004).**

Variety	Lint lb/acre	Lint percent	Variety	Lint lb/acre	Lint percent
<b>Deltapine DP 555 BG/RR</b>	1097*	38.8	‡Deltapine DP 451 BG/RR	972	32.4
<b>Deltapine DP 493</b>	1086*	38.7	Deltapine DP 494 RR	926	36.7
<b>Stoneville ST 5599BR</b>	1035*	36.3	FiberMax FM 800 BR	925	34.0
‡Stoneville ST 4892BR	1020*	35.8	FiberMax 832 LL	908	34.1
FiberMax 991 BR	1017*	34.0	Stoneville ST5303R	850	34.7
Stoneville ST 5242BR	989	37.0			
<b>Mean</b>	<b>985</b>	<b>35.7</b>			
<b>LSD<sub>0.05</sub></b>	84	1.5			
<b>CV (%)</b>	15.7	4.9			

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as promising for 2005.

‡Variety included for comparison purposes only.

## BOSSIER CITY – EARLY MATURING

**TABLE 17. One-year performance of early maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, Louisiana, 2004.**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 5242BR</b>	1562*	38.4	4.4	1.13	28.9	83.7
<b>Deltapine DP 444 BG/RR</b>	1500*	39.6	4.2	1.15	29.5	83.7
† <b>OAX 303</b>	1458*	41.0	4.8	1.14	29.8	83.8
‡Stoneville ST 5599BR	1452*	39.4	4.6	1.16	30.4	82.8
<b>FiberMax FM 960 BR</b>	1452*	37.1	4.6	1.15	32.8	83.7
‡Deltapine DP 555 BG/RR	1425*	41.0	4.6	1.16	30.2	83.3
FiberMax FM 960 B2R	1398*	39.3	4.4	1.21	31.6	84.5
Stoneville ST 4686R	1390*	36.8	4.5	1.17	30.1	83.8
FiberMax FM 958 LL	1381	37.5	4.8	1.17	32.7	83.8
FiberMax FM 966 LL	1357	37.0	4.6	1.17	33.6	84.3
<b>Deltapine PM 1218 BG/RR</b>	1333	39.9	4.8	1.12	28.5	83.5
Deltapine DP 455 BG/RR	1331	39.7	4.4	1.16	30.8	83.4
<b>Beltwide BCG 28R</b>	1329	38.5	4.9	1.16	28.6	83.9
<b>Stoneville ST 4892BR</b>	1308	38.5	4.5	1.13	30.0	83.8
Deltapine DP 449 BG/RR	1305	38.3	4.5	1.15	31.5	83.6
<b>Deltapine DP 451 BG/RR</b>	1304	34.3	4.7	1.16	28.8	83.9
<b>Stoneville ST 3636B2R</b>	1292	38.0	4.5	1.15	28.4	83.2
PhytoGen PHY 410 R	1280	36.5	4.7	1.16	30.7	84.0
Stoneville ST 4646B2R	1248	38.0	4.5	1.14	30.3	83.1
Deltapine DP 393	1246	38.4	4.6	1.18	31.9	84.3
<b>Stoneville ST 4793RR</b>	1244	37.8	4.6	1.12	29.5	83.5
Deltapine DP 432 RR	1240	37.3	4.7	1.11	30.1	83.4
Deltapine DP 445 BG/RR	1217	38.5	4.5	1.16	31.5	83.8
Deltapine DP 434 RR	1211	38.8	4.1	1.19	29.1	83.5
FiberMax FM 960 RR	1191	38.5	4.4	1.18	32.3	84.1
<b>Stoneville ST 4575BR</b>	1187	37.7	4.4	1.15	30.3	83.6
Deltapine DP 424 BGII/RR	1170	34.5	4.5	1.14	29.3	83.2
Deltapine DP 436 RR	1169	33.9	4.6	1.17	29.1	83.7
FiberMax FM 819 RR	1140	39.4	4.5	1.18	30.9	84.2
Beltwide BCG 295	1092	36.0	4.6	1.20	31.4	84.2
<b>Mean</b>	<b>1307</b>	<b>38.0</b>	<b>4.5</b>	<b>1.16</b>	<b>30.4</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	173	0.1	0.3	0.03	1.6	0.8
<b>CV (%)</b>	11	2.4	4.6	1.6	3.8	0.7

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 18. Two-year performance of early maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, LA, (2003-2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
‡Deltapine DP 555 BG/RR	1615*	43.2	4.7	1.12	29.1	82.7
<b>Deltapine DP 444 BG/RR</b>	1540*	41.3	4.2	1.13	29.2	83.4
<b>†OAX 303</b>	1529*	43.1	5.0	1.11	29.6	83.8
‡Stoneville ST 5599BR	1528*	40.8	4.7	1.13	29.6	82.8
<b>FiberMax FM 960 BR</b>	1516*	39.2	4.6	1.12	32.5	83.7
<b>Stoneville ST 4892BR</b>	1447	40.9	4.6	1.11	29.5	83.9
<b>Deltapine DP 451 BR</b>	1442	36.6	4.7	1.14	28.5	84.2
Deltapine DP 432 RR	1431	39.9	4.8	1.10	30.8	83.7
Deltapine DP 449 BR	1425	39.7	4.5	1.12	31.2	83.3
FiberMax FM 958 LL	1409	39.1	4.8	1.17	32.4	83.8
<b>Beltwide BCG 28 R</b>	1405	40.4	4.9	1.13	27.9	83.4
<b>Deltapine PM 1218 BR</b>	1400	40.2	4.8	1.10	28.0	83.5
<b>Stoneville ST 4793R</b>	1387	40.4	4.7	1.10	29.6	83.3
Stoneville ST 4646B2R	1363	39.4	4.4	1.12	29.8	83.2
Deltapine DP 434 R	1342	41.3	4.3	1.17	29.2	83.6
Deltapine DP 393	1323	40.3	4.6	1.16	32.4	84.4
Deltapine DP 424 BGII/RR	1320	36.7	4.5	1.12	29.4	83.5
Pyhtogen PHY 410 R	1302	38.8	4.7	1.12	30.9	84.0
FiberMax FM 819 R	1248	41.1	4.5	1.16	31.8	84.6
Deltapine DP 436 RR	1243	36.1	4.6	1.14	29.0	83.7
Beltwide BCG 295	1204	37.5	4.6	1.17	31.8	84.2
<b>Mean</b>	<b>1401</b>	<b>39.8</b>	<b>4.6</b>	<b>1.13</b>	<b>30.1</b>	<b>83.6</b>
<b>LSD<sub>0.05</sub></b>	132	1.1	0.2	0.02	1.2	0.8
<b>CV (%)</b>	10.1	2.7	4.2	1.8	3.7	0.9

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 19. Three-year performance of early maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, Louisiana, (2002-2004).**

Variety	Lint	Lint	MIKE	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	Percent
<b>Deltapine PM 1218 BR</b>	1392*	40.2	4.9	1.10	28.3	83.6
<b>Stoneville ST 4892BR</b>	1374*	40.8	4.8	1.12	30.0	84.2
<b>Deltapine DP 451 BR</b>	1323*	36.5	4.8	1.14	28.9	84.1
<b>Stoneville ST 4793R</b>	1281*	40.9	4.9	1.09	30.3	83.7
<b>Beltwide BCG 28 R</b>	1276	40.4	5.0	1.13	28.4	83.8
Beltwide BCG 295	1138	37.7	4.7	1.17	32.0	84.4
Deltapine DP 436 R	1135	36.2	4.7	1.14	29.4	83.9
<b>Mean</b>	<b>1273</b>	<b>38.9</b>	<b>4.8</b>	<b>1.13</b>	<b>29.6</b>	<b>83.9</b>
<b>LSD<sub>0.05</sub></b>	115	0.8	0.2	0.17	0.8	0.6
<b>CV (%)</b>	11.6	2.4	3.8	1.7	3.1	0.8

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are recommended in 2005.



## BOSSIER CITY – MEDIUM MATURING

**TABLE 20. One-year performance of medium maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, Louisiana, 2004.**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 555 BR</b>	1598*	41.9	4.6	1.15	29.8	83.1
<b>†OAX 303</b>	1582*	41.0	5.1	1.13	30.5	84.3
<b>Deltapine 488 BG/RR</b>	1572*	40.2	4.7	1.21	32.2	84.5
<b>Stoneville ST 5599BR</b>	1499*	38.3	4.8	1.15	31.9	83.9
<b>Deltapine DP 493</b>	1495*	40.7	4.9	1.17	31.3	83.8
<b>Stoneville ST 5242BR</b>	1471*	38.9	4.6	1.13	29.2	84.1
<b>Deltapine DP 543 BGII/RR</b>	1433	38.1	4.9	1.16	30.8	83.3
‡Deltapine DP 444 BG/RR	1433	38.9	4.3	1.14	30.0	83.6
DynaGro N2429	1423	36.2	5.1	1.15	33.5	84.5
†Deltapine DPLX 02T57R	1402	37.1	4.6	1.13	31.5	83.9
FiberMax FM 800 BR	1399	36.7	4.4	1.22	32.9	84.9
Deltapine DP 494 RR	1361	39.8	4.8	1.19	33.0	84.4
Stoneville ST 5303R	1345	37.0	4.7	1.13	33.8	84.9
FiberMax FM 991 B2R	1341	35.2	4.1	1.19	32.6	84.0
FiberMax FM 800 RR	1336	38.3	4.6	1.18	33.3	85.4
‡Stoneville ST 4892BR	1329	39.5	4.8	1.12	29.5	83.8
Deltapine DP 451 BR	1325	33.6	4.6	1.17	29.6	84.3
FiberMax FM 832 LL	1318	36.9	4.3	1.21	32.6	84.5
Stoneville ST 5454B2R	1297	36.1	4.5	1.15	31.3	83.6
FiberMax FM 991 BR	1274	36.4	4.6	1.17	33.7	83.5
Stoneville ST 6636BR	1257	34.9	4.4	1.19	32.2	83.8
FiberMax FM 800 BGII/RR	1188	38.1	4.2	1.22	32.0	84.5
Stoneville STX 6848R	1095	34.4	4.5	1.17	32.9	83.9
BCG 245 RR	1088	36.4	4.6	1.14	30.6	83.1
<b>Mean</b>	<b>1369</b>	<b>37.7</b>	<b>4.6</b>	<b>1.16</b>	<b>31.7</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	132	0.1	0.3	0.03	1.5	0.8
<b>CV (%)</b>	7.9	2.4	4.2	1.6	3.3	0.7

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 21. Two-year performance of medium maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, Louisiana (2003-2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 5599BR</b>	1669*	40.5	4.8	1.12	30.8	83.6
<b>Deltapine DP 555 BR</b>	1652*	43.4	4.7	1.13	29.2	83.0
<b>Deltapine DP 493</b>	1635*	42.9	5.0	1.13	31.4	84.0
<b>Stoneville ST 5242BR</b>	1613*	41.0	4.5	1.10	29.0	83.6
FiberMax FM 800 BR	1553*	39.4	4.3	1.21	33.4	85.2
‡Stoneville ST 4892BR	1460	41.3	4.8	1.10	29.7	83.8
Deltapine DP 494 RR	1440	41.3	4.8	1.17	33.6	84.1
FiberMax 991 BR	1392	38.1	4.6	1.15	33.7	83.5
‡Deltapine DP 451 BG/RR	1390	35.8	4.7	1.14	29.0	84.1
FiberMax FM 832 LL	1348	38.4	4.3	1.19	32.5	84.6
Stoneville ST5303R	1328	39.1	4.8	1.10	33.5	84.6
<b>Mean</b>	<b>1498</b>	<b>40.1</b>	<b>4.7</b>	<b>1.14</b>	<b>31.7</b>	<b>84.0</b>
<b>LSD<sub>0.05</sub></b>	144	0.9	0.2	0.02	1.2	0.6
<b>CV (%)</b>	10.3	2.1	4.1	1.7	3.5	0.7

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

**TABLE 22. Three-year performance of medium maturing cotton varieties evaluated on Norwood very fine sandy loam at Red River Research Station, Bossier City, Louisiana (2002-2004)**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 5599BR</b>	1578*	40.7	5.0	1.13	30.9	83.6
<b>Deltapine DP 555 BR</b>	1569*	43.8	4.8	1.13	29.5	82.8
<b>Deltapine DP 493</b>	1537*	43.1	5.1	1.14	31.3	83.8
‡Stoneville ST 4892BR	1405	41.5	5.0	1.10	30.0	83.7
<b>Mean</b>	<b>1522</b>	<b>42.3</b>	<b>5.0</b>	<b>1.12</b>	<b>30.4</b>	<b>83.5</b>
<b>LSD<sub>0.05</sub></b>	104	0.9	0.2	0.01	1.0	0.6
<b>CV (%)</b>	8.6	2.3	4.7	1.4	3.5	0.7

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended for 2005.

‡Variety included for comparison purposes only.

## ST. JOSEPH SILT LOAM – EARLY MATURING

**TABLE 23. One-year performance of early maturing cotton varieties evaluated on Commerce silt loam at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 393</b>	1583*	38.4	4.5	1.21	32.4	84.8
<b>Deltapine DP 432 RR</b>	1547*	37.4	4.4	1.17	31.4	83.4
<b>Stoneville ST 4892BR</b>	1542*	38.8	4.5	1.16	31.8	84.0
‡Stoneville ST 5599BR	1520*	36.8	4.4	1.19	30.8	83.7
<b>Stoneville ST 4575BR</b>	1501*	38.0	4.4	1.17	31.2	83.6
Deltapine DP 445 BG/RR	1436*	39.5	4.4	1.18	32.6	84.7
Stoneville ST 4646B2R	1422*	36.7	4.3	1.16	30.7	83.8
† <b>OAX 303</b>	1421*	39.8	4.6	1.16	30.6	84.1
‡Deltapine DP 555 BG/RR	1421*	40.6	4.1	1.15	29.8	83.1
<b>Stoneville ST 5242BR</b>	1367	37.8	4.5	1.15	30.2	84.1
Deltapine DP 444 BG/RR	1366	38.8	4.2	1.17	31.1	84.2
<b>Deltapine DP 451 BG/RR</b>	1365	35.1	4.2	1.16	29.0	84.1
Deltapine DP 449 BG/RR	1362	37.8	4.2	1.17	33.1	84.1
<b>Stoneville ST 4793R</b>	1358	38.0	4.5	1.14	30.5	83.7
Phytogen PHY 410 R	1348	36.3	4.4	1.19	31.2	84.4
Stoneville ST 4686R	1340	38.0	4.3	1.17	29.8	83.2
<b>Stoneville ST 3636B2R</b>	1333	36.9	4.2	1.17	29.3	83.6
<b>Deltapine DP 434 RR</b>	1316	38.4	4.1	1.21	29.0	84.0
<b>Paymaster PM 1218 BG/RR</b>	1304	37.3	4.5	1.12	29.1	83.8
<b>Sure-Grow SG 215 BR</b>	1303	37.4	4.6	1.12	28.0	83.9
FiberMax FM 960 BR	1296	37.7	4.3	1.17	33.9	83.7
<b>Beltwide BCG 28 R</b>	1288	38.5	4.5	1.18	29.8	83.5
Deltapine DP 455 BG/RR	1277	39.1	4.0	1.19	32.9	83.7
Deltapine DP 424 BGII/RR	1269	36.1	4.4	1.17	30.1	84.3
FiberMax FM 960 B2R	1246	37.3	4.3	1.21	32.7	84.6
Deltapine DP 436 RR	1186	34.7	4.3	1.19	29.6	83.7
FiberMax FM 966 LL	1180	36.8	4.2	1.18	33.4	84.1
FiberMax FM 958 LL	1177	36.6	4.3	1.20	34.5	84.7
Deltapine DP 458 BG/RR	1160	37.2	4.1	1.18	31.4	83.1
Acala 1517-99	1157	35.4	4.0	1.24	34.1	83.7
FiberMax FM 960 RR	1096	37.8	4.0	1.20	32.8	84.2
FiberMax FM 819 RR	1049	37.9	4.0	1.19	31.8	85.0
Beltwide BCG 295	984	35.1	4.0	1.21	31.8	84.1
AllTex Atlas	922	33.9	4.3	1.15	32.8	83.4
<b>Mean</b>	<b>1307</b>	<b>37.4</b>	<b>4.3</b>	<b>1.18</b>	<b>31.3</b>	<b>83.9</b>
<b>LSD<sub>0.05</sub></b>	201	1.2	0.2	0.03	1.3	0.9
<b>C.V (%)</b>	11.0	2.2	4.0	1.6	2.9	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 24. Two-year performance of early maturing cotton varieties evaluated on Commerce Silt Loam at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 393</b>	1405*	37.6	4.6	1.18	32.1	84.3
‡Deltapine DP 555 BG/RR	1366*	40.8	4.4	1.15	29.2	82.4
<b>Deltapine DP 432 RR</b>	1361*	36.8	4.4	1.15	30.6	83.2
<b>Stoneville ST 4892BR</b>	1358*	38.0	4.6	1.14	31.1	83.7
‡Stoneville ST 5599BR	1355*	37.1	4.5	1.17	30.2	83.1
<b>Deltapine DP 434 RR</b>	1340*	37.9	4.2	1.19	29.0	84.0
† <b>OAX 303</b>	1328*	39.6	4.6	1.15	29.9	83.8
Deltapine DP 444 BG/RR	1299*	38.3	4.3	1.15	30.4	83.8
Stoneville ST 4793R	1269*	37.7	4.7	1.13	30.6	83.8
Stoneville ST 4646B2R	1246*	36.4	4.4	1.14	29.8	83.1
Phytogen PHY 410 R	1239*	36.4	4.5	1.17	31.1	84.4
Deltapine DP 449 BG/RR	1238*	36.9	4.3	1.16	32.0	83.8
Deltapine DP 451 BG/RR	1233*	34.6	4.4	1.15	28.5	83.3
Paymaster PM 1218 BG/RR	1223*	36.9	4.6	1.11	28.8	83.6
FiberMax FM 960 BR	1194	36.4	4.3	1.17	33.6	83.6
Sure-Grow SG 215 BR	1180	36.8	4.7	1.11	28.0	83.3
Beltwide BCG 28 R	1173	37.5	4.7	1.16	29.2	83.3
Deltapine DP 424 BGII/RR	1154	35.1	4.4	1.16	29.7	83.8
FiberMax FM 958 LL	1146	36.4	4.4	1.20	33.4	84.3
Deltapine DP 436 RR	1104	34.1	4.4	1.18	28.9	83.6
FiberMax FM 819 RR	1087	37.7	4.2	1.19	31.7	84.7
Acala 1517-99	1067	35.1	4.0	1.23	33.9	83.6
Beltwide BCG 295	1040	35.2	4.1	1.20	31.2	83.5
AllTex Atlas	839	33.2	4.3	1.14	32.6	83.3
<b>Mean</b>	<b>1218</b>	<b>36.8</b>	<b>4.4</b>	<b>1.16</b>	<b>30.6</b>	<b>83.6</b>
<b>LSD<sub>0.05</sub></b>	193	1.6	0.2	0.03	1.4	1.0
<b>C.V (%)</b>	9.8	2.7	3.8	1.5	3.0	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 25. Three-year performance of early maturing cotton varieties evaluated on Commerce Silt Loam at Saint Joseph, LA (2004).**

<b>Variety</b>	<b>Lint</b>	<b>Lint</b>	<b>Mic</b>	<b>UHM</b>	<b>Strength</b>	<b>UI</b>
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 4892BR</b>	1254*	37.5	4.6	1.16	31.3	84.2
<b>Deltapine DP 451 BG/RR</b>	1224*	34.5	4.5	1.16	29.2	84.0
<b>Paymaster PM 1218 BG/RR</b>	1221*	37.0	4.6	1.12	29.0	83.7
<b>Beltwide BCG 28 R</b>	1188*	37.7	4.8	1.17	29.6	83.8
<b>Stoneville ST 4793R</b>	1187*	37.1	4.8	1.14	30.8	84.2
<b>Sure-Grow SG 215 BR</b>	1144*	36.1	4.7	1.12	28.1	83.6
Deltapine DP 436 RR	1081	33.5	4.5	1.19	28.9	84.2
Beltwide BCG 295	1068	35.0	4.2	1.22	31.4	84.0
Acala 1517-99	987	34.5	4.0	1.24	34.1	84.0
AllTex Atlas	826	32.7	4.4	1.14	32.4	83.6
<b>Mean</b>	<b>1118</b>	<b>35.6</b>	<b>4.5</b>	<b>1.17</b>	<b>30.5</b>	<b>83.9</b>
<b>LSD<sub>0.05</sub></b>	168	1.4	0.2	0.02	1.1	1.0
<b>C.V (%)</b>	7.9	3.1	3.5	1.7	3.5	0.8

\*Not significantly different from highest yielder (p=0.05)  
 Varieties in **BOLDFACE** are listed as recommended in 2005

# ST. JOSEPH SILT LOAM – MEDIUM MATURING

**TABLE 26. One-year performance of medium maturing cotton varieties evaluated on Commerce Silt Loam at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mic	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 5599BR</b>	1650*	38.6	4.4	1.15	29.3	83.3
‡Stoneville ST 4892BR	1574*	39.0	4.5	1.16	29.9	83.6
Stoneville ST 5303R	1565*	37.7	4.5	1.13	32.7	83.8
<b>Stoneville ST 5242BR</b>	1538*	37.3	4.4	1.13	29.5	83.5
Stoneville ST 6636BR	1532*	36.4	4.4	1.18	32.0	83.9
‡Deltapine DP 444 BG/RR	1508*	38.0	4.1	1.20	31.1	84.7
<b>†OAX 303</b>	1502*	41.0	4.8	1.13	29.4	83.8
Stoneville ST 5454B2R	1492*	37.0	4.3	1.16	31.0	83.7
<b>Deltapine DP 555 BG/RR</b>	1455*	41.4	4.3	1.14	29.6	82.3
FiberMax FM 832 LL	1448*	36.9	4.0	1.22	31.8	84.2
<b>Deltapine DP 493</b>	1437	40.4	4.3	1.16	30.9	83.0
Dyna Gro N2429	1419	36.3	4.6	1.17	32.4	84.6
<b>Deltapine DP 543 BGII/RR</b>	1403	37.9	4.3	1.15	29.8	83.1
Deltapine DP 451	1397	35.3	4.4	1.16	30.2	84.0
<b>Deltapine DP 488 BG/RR</b>	1377	39.1	4.1	1.20	32.5	83.5
Deltapine DP 494 RR	1376	39.6	4.3	1.18	33.5	83.7
†Deltapine DPLX 02T57 R	1360	38.0	4.4	1.15	30.1	83.7
FiberMax FM 991 BR	1314	37.2	4.2	1.18	34.2	83.6
Stoneville ST 6848R	1241	36.8	4.5	1.18	33.6	84.3
FiberMax FM 800 B2R	1194	36.7	4.0	1.20	32.2	84.5
Beltwide BCG 245 R	1162	37.4	4.2	1.13	30.9	83.1
FiberMax FM 991 B2R	1153	36.4	4.1	1.21	32.0	83.5
FiberMax FM 800 BR	1132	37.0	3.8	1.22	32.6	83.5
FiberMax FM 800 RR	1107	37.8	4.1	1.17	33.0	84.4
<b>Mean</b>	<b>1389</b>	<b>37.9</b>	<b>4.3</b>	<b>1.17</b>	<b>31.4</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	211	1.5	0.2	0.03	1.3	0.8
<b>C.V (%)</b>	10.6	2.7	4.0	1.6	2.9	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 27. Two-year performance of medium maturing cotton varieties evaluated on Commerce Silt Loam at Saint Joseph, LA (2004).**

Variety	Lint	Lint	Mic	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 5599BR</b>	1398*	38.4	4.5	1.14	29.4	82.9
<b>Deltapine DP 555 BG/RR</b>	1397*	41.2	4.4	1.13	29.1	82.3
<b>Stoneville ST 5242BR</b>	1379*	37.3	4.5	1.12	29.0	83.2
<b>Deltapine DP 493</b>	1370*	40.9	4.5	1.15	30.5	82.5
‡Stoneville ST 4892BR	1343*	38.1	4.7	1.14	29.5	83.3
Stoneville ST 5303R	1295*	37.0	4.5	1.12	32.3	83.4
FiberMax FM 832 LL	1241*	36.1	4.0	1.22	31.5	84.0
Deltapine DP 494 RR	1226*	39.4	4.5	1.19	33.4	83.6
Deltapine DP 451	1195*	34.2	4.4	1.15	29.1	83.1
FiberMax FM 991 BR	1148	36.5	4.3	1.16	33.3	83.1
FiberMax FM 800 BR	1034	36.3	3.8	1.22	32.6	83.7
<b>Mean</b>	<b>1275</b>	<b>37.8</b>	<b>4.4</b>	<b>1.16</b>	<b>30.9</b>	<b>83.2</b>
<b>LSD<sub>0.05</sub></b>	225	2.1	0.3	0.04	1.5	1.2
<b>C.V (%)</b>	11.5	2.5	3.5	1.4	2.7	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

**TABLE 28. Three-year performance of medium maturing cotton varieties evaluated on Commerce Silt Loam at Saint Joseph, LA (2004).**

Variety	Lint	Lint	Mic	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 493</b>	1451*	40.6	4.6	1.17	31.2	82.8
<b>Deltapine DP 555 BG/RR</b>	1449*	41.2	4.5	1.14	29.6	82.4
<b>Stoneville ST 5599BR</b>	1372*	37.9	4.5	1.16	30.0	83.3
‡Stoneville ST 4892BR	1294*	37.9	4.8	1.15	30.1	83.8
<b>Mean</b>	<b>1391</b>	<b>39.4</b>	<b>4.6</b>	<b>1.15</b>	<b>30.2</b>	<b>83.1</b>
<b>LSD<sub>0.05</sub></b>	298	1.9	0.3	0.03	1.0	1.0
<b>C.V (%)</b>	9.5	1.8	2.9	1.5	2.2	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended in 2005

‡Variety included for comparison purposes only.

## ST. JOSEPH CLAY – EARLY MATURING

**TABLE 29. One-year performance of early maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mic	UHM inches	Strength g/tex	UI percent
‡Stoneville ST 5599BR	1387*	39.4	4.9	1.13	30.7	83.5
<b>Stoneville ST 4575BR</b>	1373*	38.2	4.9	1.13	32.6	84.1
<b>Stoneville ST 5242BR</b>	1340*	38.3	4.7	1.12	28.5	83.6
<b>Stoneville ST 3636B2R</b>	1339*	39.1	4.8	1.16	29.8	83.9
<b>Deltapine DP 393</b>	1337*	40.0	4.6	1.16	32.2	84.3
<b>†OAX 303</b>	1337*	41.8	5.0	1.15	30.9	84.4
<b>Deltapine DP 432 RR</b>	1332*	39.9	4.9	1.13	31.6	84.3
FiberMax FM 966 LL	1304*	38.8	4.5	1.14	32.9	83.6
‡Deltapine DP 555 BG/RR	1302*	43.7	4.6	1.13	28.7	82.9
Deltapine DP 449 BG/RR	1301*	38.9	4.7	1.15	33.2	83.8
<b>Paymaster PM 1218 BG/RR</b>	1296*	38.8	5.1	1.11	28.9	83.5
<b>Beltwide BCG 28 R</b>	1288*	40.5	5.0	1.14	28.6	83.7
FiberMax FM 960 RR	1275*	39.1	4.4	1.19	32.2	84.3
Deltapine DP 445 BG/RR	1268*	40.9	4.8	1.16	32.5	83.9
Deltapine DP 455 BG/RR	1252*	41.1	4.4	1.18	31.8	82.9
Deltapine DP 434 RR	1249*	41.6	4.6	1.18	29.0	83.7
<b>Stoneville ST 4793R</b>	1212*	39.7	5.1	1.12	31.0	84.2
Deltapine DP 444 BG/RR	1207*	39.0	4.4	1.15	30.8	84.2
Stoneville ST 4646B2R	1195*	38.8	4.8	1.13	30.3	83.4
FiberMax FM 819 RR	1185*	40.7	4.5	1.15	30.5	84.5
<b>Stoneville ST 4892BR</b>	1177*	38.7	5.0	1.12	31.1	84.4
FiberMax FM 960 BR	1168*	39.3	4.6	1.14	33.7	83.6
<b>Deltapine DP 436 RR</b>	1140	35.7	4.7	1.15	28.7	84.0
Deltapine DP 451 BG/RR	1135	35.3	4.7	1.15	28.5	83.8
Stoneville ST 4686R	1134	39.2	4.7	1.15	30.2	83.3
FiberMax FM 958 LL	1126	38.8	4.8	1.17	33.3	83.7
Deltapine DP 424 BGII/RR	1112	36.2	4.5	1.14	30.0	84.0
Phytogen PHY 410 R	1103	37.3	4.8	1.15	31.4	84.7
<b>Beltwide BCG 295</b>	1084	37.0	4.4	1.17	31.4	83.6
FiberMax FM 960 B2R	1081	39.7	4.7	1.19	32.6	83.7
<b>Mean</b>	<b>1235</b>	<b>39.2</b>	<b>4.7</b>	<b>1.15</b>	<b>30.9</b>	<b>83.8</b>
<b>LSD<sub>0.05</sub></b>	231	1.4	0.2	0.03	1.4	0.9
<b>C.V (%)</b>	13.3	2.5	2.8	1.6	3.2	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.



**TABLE 30. Two-year performance of early maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mic	UHM inches	Strength g/tex	UI percent
‡Stoneville ST 5599BR	1257*	38.7	4.8	1.13	30.9	83.2
†OAX 303	1248*	41.0	4.9	1.14	30.7	84.3
<b>Deltapine DP 393</b>	1194*	38.9	4.6	1.15	32.5	84.2
<b>Paymaster PM 1218 BG/RR</b>	1181*	38.2	5.0	1.10	28.8	83.1
<b>Deltapine DP 432 RR</b>	1149*	38.7	4.8	1.13	31.5	84.0
‡Deltapine DP 555 BG/RR	1139	42.6	4.6	1.13	29.1	82.8
Beltwide BCG 28 R	1121	39.7	4.9	1.15	28.6	83.5
Deltapine DP 434 RR	1119	40.3	4.5	1.17	29.3	83.6
Deltapine DP 444 BG/RR	1109	37.9	4.3	1.14	30.4	83.9
FiberMax FM 960 BR	1086	38.0	4.5	1.14	33.7	83.5
Stoneville ST 4793R	1078	38.9	5.0	1.12	31.0	84.1
FiberMax FM 958 LL	1074	37.4	4.7	1.18	33.1	83.9
Deltapine DP 449 BG/RR	1072	37.5	4.6	1.14	33.1	83.7
Stoneville ST 4892BR	1066	38.4	4.9	1.12	31.0	83.9
Stoneville ST 4646B2R	1062	37.7	4.6	1.13	30.1	83.3
FiberMax FM 819 RR	1050	39.8	4.4	1.15	31.2	84.5
Deltapine DP 424 BGII/RR	1022	34.9	4.4	1.13	29.8	83.6
Deltapine DP 436 RR	1016	34.5	4.6	1.15	28.7	83.8
Phytogen PHY 410 R	982	36.8	4.6	1.14	32.2	84.5
Beltwide BCG 295	977	35.9	4.4	1.18	31.4	83.6
Deltapine DP 451 BG/RR	957	34.4	4.7	1.14	28.5	83.5
<b>Mean</b>	<b>1093</b>	<b>38.1</b>	<b>4.7</b>	<b>1.14</b>	<b>30.7</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	117	1.3	0.2	0.03	1.3	0.6
<b>C.V (%)</b>	9.7	2.7	2.6	1.2	3.1	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 31. Three-year performance of early maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mic	UHM inches	Strength g/tex	UI percent
<b>Paymaster PM 1218 BG/RR</b>	1152*	37.9	5.0	1.11	28.6	83.5
<b>Beltwide BCG 28 R</b>	1049*	39.0	4.9	1.16	28.8	84.1
<b>Stoneville ST 4892BR</b>	1027	38.1	4.9	1.14	31.6	84.3
<b>Deltapine DP 436 RR</b>	983	33.9	4.7	1.16	28.7	84.0
<b>Stoneville ST 4793R</b>	971	38.5	4.9	1.13	31.0	84.5
<b>Beltwide BCG 295</b>	968	35.5	4.4	1.19	31.6	83.9
Deltapine DP 451 BG/RR	930	34.1	4.7	1.16	29.0	83.8
<b>Mean</b>	<b>1011</b>	<b>36.7</b>	<b>4.8</b>	<b>1.15</b>	<b>29.9</b>	<b>80.0</b>
<b>LSD<sub>0.05</sub></b>	114	1.0	0.2	0.02	1.1	0.6
<b>C.V (%)</b>	12.8	2.9	3.6	1.5	3.5	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended in 2005

## ST. JOSEPH CLAY –MEDIUM MATURING

**TABLE 32. One-year performance of medium maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint lb/acre	Lint percent	Mic	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 555 BG/RR</b>	1691*	44.5	4.6	1.15	30.1	82.6
<b>†OAX 303</b>	1677*	41.2	4.9	1.16	31.3	84.6
‡Deltapine DP 444 BG/RR	1603*	39.6	4.2	1.18	30.8	84.7
Stoneville ST 6636BR	1596*	38.4	4.8	1.20	33.5	84.6
<b>Deltapine DP 493</b>	1582*	42.8	4.8	1.17	31.9	82.8
<b>Deltapine DP 488 BG/RR</b>	1569*	41.7	4.5	1.22	33.0	83.5
<b>Stoneville ST 5599BR</b>	1545*	40.2	4.9	1.16	30.6	83.5
Beltwide BCG 245 R	1527*	39.9	4.4	1.15	31.1	83.7
Stoneville ST 5454B2R	1509*	39.1	4.7	1.15	32.0	83.4
<b>Deltapine DP 543 BGII/RR</b>	1508*	40.5	4.8	1.18	31.1	83.8
Deltapine DP 494 RR	1503*	41.6	4.6	1.19	34.0	83.8
Stoneville ST 6848R	1499*	38.7	4.7	1.18	34.3	85.0
Dyna Gro N2429	1494*	37.6	4.9	1.15	33.0	85.2
<b>Stoneville ST 5242BR</b>	1480*	40.1	4.7	1.13	29.4	83.7
‡Stoneville ST 4892BR	1472*	38.5	5.1	1.16	31.9	84.4
FiberMax FM 832 LL	1467*	38.8	4.2	1.22	32.6	84.0
FiberMax FM 991 BR	1443	39.5	4.7	1.18	34.6	84.2
Stoneville ST 5303 R	1418	39.3	4.6	1.14	34.6	84.6
Deltapine DP 451	1359	36.0	4.5	1.17	29.3	84.3
†Deltapine DPLX 02T57 R	1350	38.8	4.7	1.12	31.6	83.8
FiberMax FM 800 B2R	1326	39.2	4.3	1.22	32.7	84.5
FiberMax FM 800 RR	1318	40.0	4.4	1.20	32.3	85.4
FiberMax FM 800 BR	1285	39.9	4.1	1.22	33.5	84.9
FiberMax FM 991 B2R	1271	36.8	4.4	1.20	32.2	84.2
<b>Mean</b>	<b>1479</b>	<b>39.7</b>	<b>4.6</b>	<b>1.17</b>	<b>32.2</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	234	1.8	0.2	0.03	1.3	1.0
<b>C.V (%)</b>	11.1	3.2	3.5	1.8	2.9	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 33. Two-year performance of medium maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint	Lint	Mic	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 5599BR</b>	1426*	39.7	4.9	1.16	30.9	83.4
<b>Deltapine DP 555 BG/RR</b>	1407*	43.6	4.6	1.14	30.0	82.4
<b>Deltapine DP 493</b>	1388*	42.2	4.9	1.15	31.5	82.4
<b>Stoneville ST 5242BR</b>	1335*	39.5	4.7	1.13	28.9	83.6
FiberMax FM 832 LL	1287*	37.5	4.2	1.22	32.9	84.0
Deltapine DP 494 RR	1244*	40.8	4.7	1.18	34.0	83.6
FiberMax FM 991 BR	1190	38.0	4.7	1.16	34.7	83.8
FiberMax FM 800 BR	1179	38.5	4.1	1.22	33.4	84.6
‡Stoneville ST 4892BR	1167	37.8	5.1	1.15	31.6	84.0
Stoneville ST 5303R	1164	37.9	4.6	1.13	34.2	84.3
Deltapine DP 451	1090	35.2	4.6	1.15	29.2	84.1
<b>Mean</b>	<b>1263</b>	<b>39.1</b>	<b>4.6</b>	<b>1.16</b>	<b>32.0</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	209	1.7	0.2	0.03	1.2	0.6
<b>C.V (%)</b>	11.0	3.3	3.3	1.9	2.6	0.9

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising in 2005

‡Variety included for comparison purposes only.

**TABLE 34. Three-year performance of medium maturing cotton varieties evaluated on Sharkey clay at Saint Joseph, LA (2004).**

Variety	Lint	Lint	Mic	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 555 BG/RR</b>	1392*	43.0	4.7	1.14	30.0	82.8
<b>Stoneville ST 5599BR</b>	1371*	39.0	4.9	1.16	30.7	83.7
<b>Deltapine DP 493</b>	1361*	41.9	4.8	1.16	31.5	82.9
‡Stoneville ST 4892BR	1123	37.6	5.0	1.15	31.4	84.1
<b>Mean</b>	<b>1316</b>	<b>40.4</b>	<b>4.8</b>	<b>1.15</b>	<b>30.9</b>	<b>83.4</b>
<b>LSD<sub>0.05</sub></b>	162	1.1	0.2	0.04	1.1	0.8
<b>C.V (%)</b>	9.8	2.7	3.8	1.8	1.9	0.9

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended in 2005

‡Variety included for comparison purposes only.

# WINNSBORO IRRIGATED – EARLY MATURING

**TABLE 35. One-year performance of early maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, 2004.**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 3636B2R</b>	1605*	37.7	4.6	1.15	29.7	83.5
<b>Stoneville ST 4646B2R</b>	1534*	37.9	4.4	1.15	31.7	83.4
‡Deltapine DP 555 BG/RR	1532*	41.8	4.6	1.16	31.5	83.4
‡Stoneville ST 5599BR	1500*	39.2	4.5	1.14	32.0	83.5
† <b>OAX 303</b>	1441*	44.1	4.9	1.13	30.7	84.3
<b>FiberMax FM 960 BR</b>	1429*	37.2	4.3	1.13	34.6	83.9
Deltapine DP 432 RR	1398	39.0	4.7	1.14	32.8	84.0
<b>Stoneville ST 4575BR</b>	1392	38.3	4.8	1.13	33.4	83.9
FiberMax FM 960 RR	1381	38.6	4.0	1.17	33.6	83.7
<b>Deltapine DP 393</b>	1378	39.1	4.8	1.18	34.3	85.1
<b>Stoneville ST 4793R</b>	1364	38.8	4.8	1.12	31.6	84.2
<b>Stoneville ST 4892BR</b>	1352	39.4	4.4	1.14	32.3	84.2
Deltapine DP 455 BG/RR	1347	39.1	4.4	1.19	33.6	83.2
<b>Beltwide BCG 28R</b>	1342	37.8	4.6	1.15	30.4	83.7
Deltapine DP 445 BG/RR	1327	39.4	4.8	1.17	33.8	84.2
Stoneville ST 4686R	1319	38.3	4.6	1.17	31.0	83.7
Deltapine DP 434 RR	1305	40.8	4.6	1.18	30.9	84.1
Deltapine DP 449 BG/RR	1304	38.1	4.5	1.17	33.5	84.6
Deltapine DP 444 BG/RR	1279	39.0	4.3	1.16	31.8	84.5
FiberMax FM 958 LL	1258	37.8	4.4	1.18	35.1	84.7
Deltapine DP 451 BG/RR	1253	36.2	4.8	1.16	30.3	84.7
<b>Stoneville ST 5242BR</b>	1225	38.5	4.7	1.13	31.2	84.1
<b>Deltapine PM 1218 BG/RR</b>	1201	39.0	5.1	1.08	28.5	83.7
PhytoGen PHY 410 R	1201	36.4	4.6	1.16	33.5	84.7
FiberMax FM 819 RR	1158	38.9	4.3	1.18	33.2	84.5
FiberMax FM 966 LL	1114	36.5	4.3	1.17	35.9	84.4
Deltapine DP 424 BGII/RR	1112	35.1	4.7	1.14	32.2	84.1
Deltapine DP 436 RR	1100	34.7	4.6	1.16	29.9	84.2
<b>Beltwide BCG 295</b>	1084	35.1	4.2	1.20	33.7	84.8
FiberMax FM 960 B2R	1083	37.7	4.6	1.20	33.7	83.7
<b>Mean</b>	<b>1310</b>	<b>38.2</b>	<b>4.6</b>	<b>1.16</b>	<b>32.3</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	196	1.0	0.3	0.02	1.2	0.8
<b>CV (%)</b>	10.8	2.1	4.1	1.2	2.8	0.6

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 36. Two-year performance of early maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2003-2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
‡Stoneville ST 5599BR	1676*	40.9	4.7	1.12	30.4	82.9
† <b>OAX 303</b>	1585*	42.5	4.9	1.11	29.7	83.9
‡Deltapine DP 555 BG/RR	1546	42.9	4.7	1.12	29.5	82.8
<b>Stoneville ST 4646B2R</b>	1545	39.4	4.5	1.11	29.7	83.0
<b>Stoneville ST 4892BR</b>	1496	40.8	4.7	1.10	31.0	83.9
<b>Deltapine DP 393</b>	1488	40.6	4.8	1.15	33.4	84.6
<b>FiberMax FM 960 BR</b>	1482	38.7	4.4	1.11	33.3	83.6
Deltapine DP 432 RR	1459	40.3	4.7	1.11	31.4	83.9
<b>Deltapine PM 1218 BG/RR</b>	1426	40.6	5.1	1.06	28.0	83.6
<b>Beltwide BCG 28R</b>	1413	42.5	4.7	1.13	29.4	84.0
Deltapine DP 434 RR	1411	42.2	4.6	1.16	29.9	84.4
FiberMax FM 958 LL	1402	39.5	4.5	1.16	33.5	84.4
<b>Stoneville ST 4793R</b>	1395	40.8	4.9	1.10	30.5	83.9
Deltapine DP 449 BG/RR	1369	39.1	4.6	1.13	31.9	83.9
Deltapine DP 444 BG/RR	1314	40.6	4.2	1.12	30.2	83.9
PhytoGen PHY 410 R	1289	38.2	4.6	1.13	32.7	84.6
Deltapine DP 424 BGII/RR	1283	37.0	4.7	1.11	29.6	83.9
Deltapine DP 451 BG/RR	1277	37.3	4.9	1.13	29.1	84.3
Beltwide BCG 295	1252	36.8	4.3	1.18	32.1	84.0
FiberMax FM 819 RR	1243	40.3	4.3	1.16	32.3	84.2
Deltapine DP 436 RR	1186	35.8	4.6	1.13	28.7	83.8
<b>Mean</b>	<b>1406</b>	<b>39.7</b>	<b>4.6</b>	<b>1.13</b>	<b>30.8</b>	<b>83.8</b>
<b>LSD<sub>0.05</sub></b>	129	0.7	0.2	0.02	0.9	0.7
<b>CV (%)</b>	9.7	1.9	3.7	1.7	3.0	0.8

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 37. Three-year performance of early maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2002-2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 4892BR</b>	1438*	40.9	4.8	1.11	31.0	84.0
<b>Beltwide BCG 28R</b>	1390*	40.1	4.8	1.14	29.5	83.9
<b>Stoneville ST 4793R</b>	1330	40.9	4.9	1.10	30.3	84.0
<b>Deltapine PM 1218 BG/RR</b>	1312	40.1	5.0	1.08	28.6	84.0
Beltwide BCG 295	1259	37.4	4.4	1.19	32.2	84.5
Deltapine DP 451 BG/RR	1213	36.9	4.8	1.14	29.3	84.4
Deltapine DP 436 RR	1145	35.9	4.6	1.14	28.9	83.7
<b>Mean</b>	<b>1298</b>	<b>38.9</b>	<b>4.8</b>	<b>1.13</b>	<b>30.0</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	80	0.6	0.2	0.01	0.7	0.7
<b>CV (%)</b>	8.1	1.8	4.0	1.4	2.8	0.7

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

# WINNSBORO IRRIGATED – MEDIUM MATURING

**TABLE 38. One-year performance of medium maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, 2004.**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 493</b>	1693*	44.6	4.4	1.17	33.1	83.9
<b>Deltapine DP 555 BG/RR</b>	1635*	41.9	4.5	1.16	31.4	83.3
<b>Stoneville ST 5599BR</b>	1610*	39.0	4.5	1.16	33.2	83.9
‡Stoneville ST 4892BR	1492	39.7	4.6	1.15	32.6	84.1
<b>Deltapine DP 543 BGII/RR</b>	1460	38.5	4.4	1.16	33.0	83.8
‡Deltapine DP 451 BG/RR	1458	35.3	4.5	1.18	29.6	84.7
<b>†OAX 303</b>	1420	39.5	4.7	1.15	31.9	84.3
Stoneville ST5454B2R	1379	35.1	4.6	1.18	33.3	83.4
Deltapine DP 494 RR	1361	39.5	4.3	1.18	35.5	84.3
DynaGro N2429	1338	38.1	4.7	1.16	33.8	85.0
FiberMax 991 B2R	1335	35.8	4.3	1.22	35.8	84.4
‡Deltapine DP 444 BG/RR	1322	38.5	4.2	1.16	32.1	84.2
FiberMax 800 B2R	1321	37.6	3.9	1.22	33.9	84.5
Stoneville ST 5242BR	1318	37.2	4.2	1.14	31.2	84.5
Stoneville ST 6636BR	1317	36.2	4.5	1.21	35.0	85.3
<b>Deltapine 488 BG/RR</b>	1308	39.5	4.1	1.19	33.7	83.9
FiberMax 991 BR	1302	36.8	4.6	1.20	37.1	84.3
Stoneville ST 5303R	1282	37.4	4.4	1.15	34.4	84.0
Stoneville ST 6848R	1263	36.6	4.6	1.20	36.0	85.3
Beltwide BCG 245 R	1247	37.0	4.4	1.14	32.6	83.7
†Deltapine DPLX 02T57R	1228	36.5	4.5	1.14	32.6	83.9
FiberMax FM 800 BR	1221	37.2	3.5	1.23	34.8	84.5
FiberMax FM 800 RR	1195	38.1	3.9	1.18	35.6	85.4
FiberMax 832 LL	1134	37.2	3.7	1.22	33.2	84.3
<b>Mean</b>	<b>1310</b>	<b>37.9</b>	<b>4.3</b>	<b>1.18</b>	<b>33.5</b>	<b>84.3</b>
<b>LSD<sub>0.05</sub></b>	197	1.4	0.2	0.02	1.1	0.6
<b>CV (%)</b>	10.2	2.9	4.2	1.5	2.5	0.5

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 39. Two-year performance of medium maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2003-2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 493</b>	1840*	43.3	4.6	1.14	31.4	83.8
<b>Deltapine DP 555 BG/RR</b>	1732*	43.2	4.6	1.13	30.2	82.6
<b>Stoneville ST 5599BR</b>	1717*	40.6	4.7	1.14	31.8	83.6
‡Stoneville ST 4892BR	1617	41.3	4.9	1.12	31.5	84.1
Stoneville ST 5242BR	1566	39.8	4.4	1.11	29.9	84.3
‡Deltapine DP 451 BG/RR	1430	36.7	4.7	1.15	28.8	84.4
Deltapine DP 494 RR	1467	41.2	4.4	1.16	34.5	84.5
FiberMax 991 BR	1459	39.1	4.7	1.16	35.4	84.0
Stoneville ST 5303R	1390	38.0	4.6	1.12	33.5	84.4
FiberMax 832 LL	1379	38.2	3.8	1.22	32.8	84.7
FiberMax FM 800 BR	1354	38.7	3.7	1.21	34.1	84.4
<b>Mean</b>	<b>1542</b>	<b>40.0</b>	<b>4.5</b>	<b>1.15</b>	<b>32.2</b>	<b>84.1</b>
<b>LSD<sub>0.05</sub></b>	125	1.0	0.2	0.02	0.7	0.8
<b>CV (%)</b>	8.8	2.6	3.8	1.6	2.3	0.9

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are recommended 2005.

‡Variety included for comparison purposes only.

**TABLE 40. Three-year performance of medium maturing cotton varieties grown on irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2002-2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 493</b>	1807*	43.6	4.5	1.15	32.0	83.7
<b>Deltapine DP 555 BG/RR</b>	1690	43.4	4.6	1.14	29.7	82.9
<b>Stoneville ST 5599BR</b>	1674	40.8	4.7	1.15	31.5	84.0
‡Stoneville ST 4892BR	1552	41.3	4.9	1.12	31.2	84.2
<b>Mean</b>	<b>1680</b>	<b>42.2</b>	<b>4.7</b>	<b>1.14</b>	<b>31.1</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	115	0.7	0.1	0.02	0.7	0.7
<b>CV (%)</b>	8.3	2.0	3.5	1.9	2.7	0.9

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are listed as recommended for 2005.

‡Variety included for comparison purposes only.

# WINNSBORO NON-IRRIGATED – EARLY MATURING

**TABLE 41. One-year performance of early maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, 2004.**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI Percent
<b>Deltapine DP 393</b>	1483*	40.0	5.0	1.13	33.7	83.6
<b>Stoneville ST 5242BR</b>	1396*	38.6	5.0	1.08	29.2	83.6
<b>Stoneville ST 4575BR</b>	1344*	39.5	5.1	1.08	33.0	83.8
‡Deltapine DP 555 BG/RR	1312*	41.9	5.1	1.08	29.6	82.3
‡Stoneville ST 5599BR	1273	38.9	5.1	1.09	30.2	82.6
Deltapine DP 449 BG/RR	1263	39.3	5.1	1.09	32.5	82.9
<b>Deltapine PM 1218 BG/RR</b>	1261	36.8	5.3	1.07	28.6	82.8
<b>†OAX 303</b>	1240	39.9	5.4	1.07	29.1	82.3
Stoneville ST 4686R	1235	38.2	4.9	1.11	29.1	82.9
Deltapine DP 432 RR	1208	38.3	4.9	1.09	31.4	83.5
<b>Stoneville ST 4892BR</b>	1194	40.0	5.4	1.07	30.8	83.5
FiberMax FM 960 RR	1176	37.4	4.6	1.11	31.1	82.9
Deltapine DP 445 BG/RR	1172	38.1	5.2	1.09	33.2	82.7
<b>Deltapine DP 444 BG/RR</b>	1166	38.0	4.6	1.10	29.8	82.9
Deltapine DP 434 RR	1154	39.9	5.1	1.12	29.4	82.9
FiberMax FM 960 BG/RR	1148	37.6	5.2	1.07	33.1	82.7
<b>Beltwide BCG 295</b>	1123	35.3	4.7	1.15	31.8	83.2
<b>Beltwide BCG 28R</b>	1119	38.8	5.2	1.09	29.2	83.1
<b>Stoneville ST 4793R</b>	1117	38.2	5.6	1.06	31.0	83.0
<b>Stoneville ST 3636B2R</b>	1112	36.8	4.9	1.09	28.3	82.4
Stoneville ST 4646B2R	1078	37.5	5.3	1.07	30.0	82.8
FiberMax FM 960 B2R	1078	37.3	5.1	1.14	31.8	82.8
<b>Deltapine DP 451 BG/RR</b>	1077	35.4	5.3	1.11	28.8	83.6
Deltapine DP 455 BG/RR	1076	38.3	4.7	1.10	31.7	82.1
FiberMax FM 958 LL	1069	36.1	4.9	1.10	32.4	83.2
PhytoGen PHY 410 R	1064	36.3	5.0	1.09	32.9	83.4
FiberMax FM 966 LL	1027	36.9	5.0	1.09	34.6	83.8
Deltapine DP 424 BGII/RR	1022	34.8	5.1	1.08	30.2	83.5
Deltapine DP 436 RR	954	35.2	5.2	1.08	29.0	83.4
FiberMax FM 819 RR	926	37.4	4.6	1.13	32.6	84.2
<b>Mean</b>	<b>1162</b>	<b>37.9</b>	<b>5.1</b>	<b>1.09</b>	<b>30.9</b>	<b>83.1</b>
<b>LSD<sub>0.05</sub></b>	182	1.6	0.2	0.03	1.0	0.9
<b>CV (%)</b>	9.0	2.7	2.8	1.5	2.1	0.6

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.



**TABLE 42. Two-year performance of early maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2003-2004).**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Deltapine DP 393</b>	1080*	39.8	4.6	1.12	33.1	84.0
‡Stoneville ST 5599BR	989*	39.3	4.6	1.07	29.8	82.9
<b>Deltapine DP 444 BG/RR</b>	960	39.3	4.2	1.10	29.7	83.8
† <b>OAX 303</b>	957	40.7	5.0	1.07	29.5	83.0
‡Deltapine DP 555 BG/RR	935	40.9	4.6	1.09	29.4	83.0
<b>Deltapine PM 1218 BG/RR</b>	923	38.5	5.0	1.05	28.6	83.5
<b>Deltapine DP 451 BG/RR</b>	908	35.9	4.7	1.11	28.9	83.6
Deltapine DP 449 BG/RR	907	38.2	4.6	1.08	31.8	83.1
FiberMax FM 958 LL	888	37.6	4.4	1.11	32.4	83.8
<b>Beltwide BCG 28R</b>	876	38.4	4.8	1.10	29.7	83.7
<b>Stoneville ST 4892BR</b>	873	40.1	4.8	1.06	30.7	83.9
Deltapine DP 434 RR	872	40.2	4.4	1.13	29.8	83.8
FiberMax FM 960 BR	860	37.9	4.5	1.05	33.1	83.3
<b>Stoneville ST 4793R</b>	849	38.9	4.8	1.05	30.4	83.6
<b>Beltwide BCG 295</b>	845	36.2	4.4	1.14	31.3	83.7
Deltapine DP 424 BGII/RR	834	35.4	4.4	1.09	30.0	83.9
Deltapine DP 436 RR	811	35.4	4.7	1.10	29.2	84.3
PhytoGen PHY 410 R	803	37.7	4.6	1.07	32.7	83.7
Stoneville ST 4646B2R	746	37.5	4.5	1.08	29.4	83.5
FiberMax FM 819 RR	697	39.1	4.3	1.13	33.0	84.9
<b>Mean</b>	<b>881</b>	<b>38.4</b>	<b>4.6</b>	<b>1.09</b>	<b>30.7</b>	<b>83.7</b>
<b>LSD<sub>0.05</sub></b>	117	0.8	0.2	0.02	0.9	0.8
<b>CV (%)</b>	12.3	2.0	3.8	1.8	2.9	0.8

\*Not significantly different from highest yielder ( $p=0.05$ )

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 43. Three-year performance of early maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2002-2004).**

Variety	Lint lb/acre	Lint percent	MIKE	UHM inches	Strength g/tex	UI percent
<b>Beltwide BCG 28 R</b>	1116*	39.3	4.9	1.10	30.1	84.0
<b>Deltapine PM 1218 BR</b>	1089*	39.7	5.1	1.05	28.8	83.7
<b>Stoneville ST 4892 BR</b>	1074*	40.7	5.0	1.07	31.2	84.2
<b>Stoneville ST 4793 R</b>	1040*	40.0	5.0	1.06	31.1	83.7
<b>Deltapine DP 451 BR</b>	1036*	36.2	4.8	1.12	29.3	84.1
<b>Beltwide BCG 295</b>	1031*	37.1	4.4	1.15	31.9	84.2
Deltapine DP 436 RR	961	35.6	4.8	1.09	29.4	84.2
<b>Mean</b>	<b>1049</b>	<b>38.4</b>	<b>4.9</b>	<b>1.09</b>	<b>30.2</b>	<b>84.0</b>
<b>LSD<sub>0.05</sub></b>	107	0.7	0.1	0.01	0.6	0.9
<b>CV (%)</b>	10.3	2.2	3.2	1.6	3.4	0.8

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

# WINNSBORO NON-IRRIGATED – MEDIUM MATURING

**TABLE 44. One-year performance of medium maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, 2004.**

Variety	Lint lb/acre	Lint percent	Mike	UHM inches	Strength g/tex	UI percent
<b>Stoneville ST 5599BR</b>	1394*	39.8	5.0	1.09	31.4	82.5
<b>†OAX 303</b>	1296*	41.6	5.3	1.08	31.0	83.0
Deltapine DP 494 RR	1270*	41.6	4.8	1.11	35.3	83.6
<b>Stoneville ST 5303R</b>	1266*	39.1	5.2	1.07	34.2	83.9
<b>Deltapine DP 493</b>	1248*	42.7	5.2	1.09	32.6	82.4
‡Stoneville ST 4892BR	1210	40.2	5.4	1.09	32.1	83.6
‡Deltapine DP 444 BG/RR	1175	36.5	4.6	1.09	30.3	82.8
<b>Deltapine DP 555 BG/RR</b>	1165	42.3	5.2	1.08	31.0	82.4
Stoneville ST 6636BR	1142	38.8	5.3	1.12	33.7	83.5
‡Deltapine DP 451 BG/RR	1121	36.5	5.2	1.11	29.4	83.9
<b>Deltapine DP 488 BG/RR</b>	1103	40.6	5.0	1.14	33.2	83.8
Stoneville ST 6848R	1103	37.5	5.5	1.15	37.7	84.7
FiberMax 832 LL	1101	36.4	4.4	1.17	34.2	83.9
Stoneville ST 5242BR	1097	37.3	4.9	1.07	29.6	82.9
<b>Deltapine DP 543 BGII/RR</b>	1092	39.0	5.2	1.09	32.2	83.3
Beltwide BCG 245 RR	1073	38.3	5.0	1.10	32.2	82.7
FiberMax 991 BR	1058	37.2	5.2	1.11	36.7	83.7
FiberMax FM 800 BR	1057	38.0	1.7	1.15	34.8	83.8
†Deltapine DPLX 02T57R	1056	38.1	5.3	1.06	33.1	82.9
DynaGro N2429	1007	37.4	5.3	1.09	35.6	84.4
FiberMax FM 800 RR	991	37.8	4.9	1.12	35.9	83.8
FiberMax 991 B2R	975	36.0	4.9	1.14	35.6	84.3
Stoneville ST 5454B2R	940	35.6	5.2	1.08	32.7	82.9
FiberMax 800 B2R	892	37.6	4.9	1.17	34.2	84.5
<b>Mean</b>	<b>1118</b>	<b>38.7</b>	<b>5.1</b>	<b>1.11</b>	<b>33.3</b>	<b>83.5</b>
<b>LSD<sub>0.05</sub></b>	153	1.3	0.3	0.03	1.3	0.8
<b>CV (%)</b>	8.4	2.2	3.4	1.6	2.6	0.6

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

†Experimental. Seed of this variety may or may not be available in 2005.

**TABLE 45. Two-year performance of medium maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2003-2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Stoneville ST 5599BR</b>	998*	40.3	4.9	1.06	30.8	82.8
<b>Stoneville ST 5303R</b>	915*	39.2	5.0	1.06	34.0	82.8
‡Stoneville ST 4892BR	917*	40.7	5.0	1.08	32.0	83.7
<b>Deltapine DP 493</b>	886	42.2	4.9	1.08	32.4	82.8
Stoneville ST 5242BR	847	39.5	4.6	1.05	29.0	83.1
Deltapine DP 494 RR	846	40.4	4.5	1.12	34.6	83.7
FiberMax 991 BR	829	37.2	4.9	1.11	36.8	84.0
‡Deltapine DP 451 BG/RR	827	36.2	4.8	1.09	28.9	84.2
<b>Deltapine DP 555 BG/RR</b>	824	41.7	4.8	1.08	30.1	82.6
FiberMax 832 LL	817	37.2	4.3	1.16	34.2	84.3
FiberMax FM 800 BR	772	38.7	4.4	1.16	35.4	84.5
<b>Mean</b>	<b>862</b>	<b>39.4</b>	<b>4.7</b>	<b>1.10</b>	<b>32.6</b>	<b>83.6</b>
<b>LSD<sub>0.05</sub></b>	93	0.9	0.2	0.02	1.0	0.6
<b>CV (%)</b>	9.8	2.1	3.3	1.7	3.0	0.7

\*Not significantly different from highest yielder (p=0.05)

Varieties in **BOLDFACE** are listed as recommended or promising for 2005.

‡Variety included for comparison purposes only.

**TABLE 46. Three-year performance of medium maturing cotton varieties grown on non-irrigated Gigger silt loam at the Macon Ridge Research Station, Winnsboro, Louisiana, (2002-2004).**

Variety	Lint	Lint	Mike	UHM	Strength	UI
	lb/acre	percent		inches	g/tex	percent
<b>Deltapine DP 493</b>	1284*	43.4	5.0	1.09	32.3	83.0
<b>Stoneville ST 5599BR</b>	1246*	41.0	5.1	1.08	30.8	82.9
<b>Deltapine DP 555 BG/RR</b>	1222*	43.1	4.9	1.09	29.8	82.6
‡Stoneville ST 4892 BG/RR	1122	41.6	5.1	1.08	31.9	83.8
<b>Mean</b>	<b>1219</b>	<b>42.3</b>	<b>5.0</b>	<b>1.08</b>	<b>31.2</b>	<b>83.0</b>
<b>LSD<sub>0.05</sub></b>	85	0.8	0.2	NS	1.0	1.1
<b>CV (%)</b>	7.8	2.1	3.0	1.7	3.6	1.2

\*Not significantly different from highest yielder (p=0.05).

Varieties in **BOLDFACE** are recommended for 2005.

‡Variety included for comparison purposes only.

**Table 47. Fusarium wilt and root-knot nematode ratings for cotton variety test at the Red River Research Station, Bossier City, LA, 2004**

Cultivar	2004		2-year Average	
	Gall rating <sup>a</sup>	Wilt rating <sup>b</sup>	Gall rating <sup>a</sup>	Wilt rating <sup>b</sup>
Acala Nemx	2.1	0.2	1.9	0.2
Acala Nemx HY	2.3	0.1		
Beltwide Genetics 24R	4.3	1.8	3.8	2.2
Beltwide Genetics 295	3.6	1.3	3.4	1.2
Deltapine DP 393	3.8	0.8		
Deltapine DP 424BGII/RR	3.3	0.8	3.7	1.1
Deltapine DP 432 RR	4.2	1.3		
Deltapine DP436RR	3.6	0.5	3.2	0.8
Deltapine DP 444BG/RR	2.9	0.4	3.0	1.1
Deltapine DP 449 BG/RR	3.7	1.1		
Deltapine DP 451BG/RR	3.6	0.7	3.5	1.1
Deltapine DP 493	4.9	1.8	4.5	2.6
Deltapine DP 555BG/RR	4.1	2.0	3.9	2.4
DynaGro N2429	3.8	0.8		
FiberMax FM 800 BR	4.0	1.7		
FiberMax FM 819 RR	3.8	2.2		
FiberMax FM 832 LL	3.3	2.3		
FiberMax FM 958 LL	4.7	1.7		
FiberMax FM 960 BR	4.3	1.7		
FiberMax FM 991BR	4.0	1.2	4.1	1.4
OAX 303	4.7	2.4		
Paymaster 1218 BG/RR	3.9	1.2	3.5	1.7
Phytogen PHY 410 RR	4.5	0.6	3.9	0.7
Stoneville ST 474	4.4	2.1	4.4	2.9
Stoneville ST 4646 B2R	3.9	2.3	3.9	3.0
Stoneville ST 4575 BR	4.7	0.5		
Stoneville ST 4686 R	3.7	2.4		
Stoneville ST 4793R	4.3	2.3	3.9	2.7
Stoneville ST 4892BR	3.8	2.3	3.8	2.8
Stoneville ST 5303R	3.4	0.3	3.2	0.7
Stoneville ST 5242 BR	2.9	0.5		
Stoneville ST 5454 B2	3.8	1.5		
Stoneville ST 5599BR	2.0	0.4	1.9	0.6
Stoneville ST 6636 BR	3.2	0.9		
Stoneville ST 6848 R	2.9	0.5		
Stoneville ST LA887	2.1	0.3	2.1	0.5
LSD ( $P=0.05$ )	0.8	1.0		

<sup>a</sup> Root-gall rating on a scale of 0-5; 0=no root galling, 5=severe root galling.

<sup>b</sup> Wilt rating on a scale of 0-5; 0=no stem discoloration, 5=complete stem discoloration.



This material was prepared by the following personnel of the LSU Agricultural Center:

Sandy Stewart, Assistant Professor and Cotton Specialist  
W. David Caldwell, Professor, Red River Research Station  
Don Boquet, Professor, Macon Ridge Research Station  
Ernie Clawson, Assistant Professor, Northeast Research Station  
Gerald Myers, Associate Professor, Department of Agronomy  
Ivan Dickson, Instructor, Department of Agronomy  
Patrick Colyer, Professor, Red River Research Station  
Ralph Bagwell, Professor and Specialist, Northeast Region Office  
Steve Kelly, Associate Professor and Specialist, Northeast Region Office  
B. Rogers Leonard, Professor, Macon Ridge Research Station  
James Hayes, Research Associate, Red River Research Station  
Brad Guillory, Research Associate, Dean Lee Research Station  
Brandi C.W. Garber, Research Associate, Dean Lee Research Station  
Alphonse Coco, Research Associate, Northeast Research Station  
Jay Caylor, Research Associate, Macon Ridge Research Associate  
Clay Shivers, Research Associate, Macon Ridge Research Station

**Louisiana State University Agricultural Center**, William B. Richardson, Chancellor  
**Louisiana Agricultural Experiment Station**, David J. Boethel, Vice Chancellor and Director  
**Louisiana Cooperative Extension Service**, Paul D. Coreil, Vice Chancellor and Director

Issued in furtherance of Cooperative Extension Work, Acts of Congress of May 8 and June 30, 1914, in cooperation with the United States Department of Agriculture. The Louisiana Cooperative Extension Service provides equal opportunities in programs and employment.