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REPLICATED AGRONOMIC COTTON EVALUATION (RACE)

SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2010

SCS-2010-11

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ACKNOWLEDGMENTS

Appreciation is extended to the **Texas Department of Agriculture** for their funding that supports the fiber grading/analysis performed at the Fiber and Biopolymer Research Institute in Lubbock. Without this support, these trials would not be possible. Also, appreciation is extended to all of the local cooperators who take time to plant, manage and harvest all of these trials with their own equipment. Finally, we would like to extend our appreciation to **Cotton Incorporated** through the **Texas State Support Committee** for their partial funding of these trials.

2010 HIGHLIGHTS

Variety selection is the most important decision made during the year. Unlike herbicide or insecticide decisions that can be changed during the season to address specific conditions and pests, variety selection is made only once, and variety selection dictates the management of a field for the entire season. Variety decisions should be based on genetics first, and transgenic technology second. Attention should be focused on agronomic characteristics such as yield, maturity, and fiber quality when selecting varieties. Figure 1 outlines the Best Management Practices for variety selection.

Texas producers planted 6.01 million acres of cotton in 2010 which was about 1 million more than the previous year. In the east/south Texas regions (Lower Rio Grande Valley, Southern Blacklands, South Texas/Wintergarden and Upper Coastal Bend), 672,000 acres were planted in 2010.

Transgenic varieties accounted for 93.4% of the state acreage in 2010. Transgenic acreage has gradually increased from 87% of the state acreage in 2007 to where it is today. According to the USDA-Agricultural Marketing Service “Cotton Varieties Planted 2010 Crop” survey, the following Brands were planted to the highest percentage of acres in Texas, FiberMax had 64.3%, Stoneville had 2.0%, Croplan Genetics had 0.6%, Delta Pine had 13.2%, Dyna-Grow had 1.6%, and Phytogen had 2.1%.

To assist Texas cotton producers in remaining competitive in the Lower Rio Grande Valley, Southern Blacklands, South Texas/Wintergarden and Upper Coastal Bend regions, the Texas AgriLife Extension Service-Cotton Agronomy program has been conducting, large plot, on-farm, replicated variety trials for the past eight years (Figure 2). This approach provides a good foundation of information that can be utilized to begin the decision making process.

Sixteen locations were planted in 2010. Counties included in the variety trials were Cameron, Nueces, San Patricio, Refugio, DeWitt, Victoria, Calhoun, Jackson, Matagorda, Fort Bend, Wharton, Colorado, Brazos, Williamson, Milam, and Bexar, but only 15 made it to harvest. The 2010 season was characterized as being dry early, receiving some beneficial rains in late May through early July and then some heavy rains in some areas around harvest due to tropical storms and low pressure systems. Most areas started off with good stands of cotton, and yield potential looked very promising over most areas throughout most of the cotton growing season. However, late in the season, most of the southern region and upper coast received extended, heavy rainfall which resulted in loss of cotton lint yield and quality and some seed loss due to the extended wet conditions. Consequently, the areas that received timely rainfall due to these weather conditions really benefitted and therefore yields responded accordingly.

Commercial seed companies represented in the trials included Fibermax (FM), Stoneville (ST), Deltapine (DPL), Phytogen (PHY), Dyna-Grow (DG), Croplan Genetics (CG), and Alltex. All varieties were treated with either Aeris or Avicta Complete Pak seed treatment.

Table 1 provides a list of planting and harvest dates, row spacing and plot area for each location. Tables 5 to 19 include the cotton variety yield data and fiber analysis for each location. Data featured in these tables include, statistical analysis of yield, turnout, fiber quality parameters, loan and gross lint value/acre. Plot samples were ginned with a 10-saw table-top gin with no lint cleaner. This method consistently produces higher lint turnout percentages than would be common in a commercial gin. Consequently, higher turnouts equate to lint yields which are generally higher than area-wide commercial yields. Additionally, all data were standardized to a color grade and leaf of 41 - 4. Tables 2-4 shows numerical rankings based upon lint yield for all varieties across all locations. Only varieties that were planted at a minimum of five locations for the Lower Rio Grand Valley and Coastal Bend Counties (Table 2), four locations for the Upper Coastal Bend, Brazos River Bottom and Wintergarden (Table 3), and all varieties that were planted in the two Southern Blackland County locations (Table 4) were included in these three tables.

The statistical analysis indicates a general overview of the uniformity or variability of the test conditions, such as soil type, cultural practices, insect damage, etc. Trial locations with large least significant differences (LSD's) and CVs indicate a higher degree of variability. The smaller the LSD, the more precise are the test results and higher likelihood of identifying differences among varieties. Non-significance is represented as "NS" and indicates no differences among the varieties within the data column.

Varieties that are statistically different from one another will not have the same letter next to the corresponding number value in a column. For example, Table 6 (Texas AgriLife Research and Extension Center) lint yields for the top two varieties (FM 1740, and DP 0920) are statistically similar (both varieties followed by a common letter “a” designation). However, the first variety (FM 1740) significantly out-yielded PHY 367, PHY 375, DP 1032, ST 5458, FM 9160, CG 3220, ST 4288 and AT APEX because none of which are followed by an “a” designation).

Variety Characteristics/Highlights

Below are the cotton variety characteristics and highlights that were included in the 2010 Uniform Variety Trials and common varieties planted in these regions. These cotton variety descriptions were provided by individual seed company representatives or publicly available information.

ALLTEX 65207 WRF

- Medium maturity, picker variety
- Premium mirconaire
- Smooth leaf
- Staple: 1.13-1.27, Strength: 27-30

ALLTEX Apex WRF

- Medium to medium/early maturing variety
- Good fiber package
- Good storm tolerance

CROPLAN GENETICS 3220 B2RF COTTON

- Early/medium maturity variety
- Semi-smooth leaf
- Moderate plant height
- Good storm tolerance
- Early plant vigor
- Easily managed plant growth
- Premium lint quality

DeltaPine 141 B2RF

- Medium maturity variety
- Medium-tall plant height
- Semi-smooth leaf
- Outstanding fiber quality potential
- Has demonstrated high lint turnout and excellent yield potential on irrigated and good, productive soils

DeltaPine 161 B2RF

- Medium/full maturity variety
- Tall plant height
- High lint turnout
- Outstanding fiber quality potential
- Has demonstrated good tolerance to Fusarium and good tolerance to Verticillium Wilt

DeltaPine 0920 B2RF

- Early –mid maturity variety
- Medium plant height
- Semi-smooth leaf
- Widely adapted with strong performance in South Texas

DeltaPine 0935 B2RF

- Mid maturity variety
- Smooth leaf
- High gin turnout
- Nectariless trait for plant bug suppression
- Good overall fiber quality

DeltaPine 1028 B2RF

- Early-mid maturity
- Smooth leaf
- Improved staple and micronaire

DeltaPine 1032 B2RF

- Mid maturity
- Smooth leaf
- Good combination of yield and fiber quality potential
- Good performance on irrigated acres in West Texas

DeltaPine 1048 B2RF

- Mid-full maturity
- Smooth leaf
- Good combination of yield and fiber quality potential on dryland and low water irrigation acres in West Texas
- Improved staple and micronaire

DynaGrow 2570 B2RF

- Mid maturity variety
- Smooth leaf
- Above average height
- Excellent seedling vigor
- Responds well to irrigation

FiberMax 840 B2RF

- Medium/full maturity, okra-leaf variety
- Medium-tall plant with a vigorous growth habit
- Benefits from early season PGR applications under most conditions
- Well-adapted to South Texas

FiberMax 1740 B2RF

- Early/medium maturity variety
- Medium-tall plant with a slightly bushy growth habit
- Benefits from early season PRG applications
- Features good fiber properties
- Well-adapted to all cotton growing areas

FiberMax 9160 B2RF

- Medium maturity variety
- Medium-tall plant
- Excellent fiber package
- Benefits from early season PGR applications
- Adapted to the Southwest regions and responds well to irrigation and high management practices

FiberMax 9170 B2RF

- Medium maturity variety
- Adapted to Southwest region
- Outstanding yield potential
- Excellent fiber package
- Good storm resistance
- Responds well to Stance plant growth regulator
- High gin turnout
- Early results indicate good verticillium wilt tolerance and bacterial blight resistance

SeedTec HQ 212 CT

- Early-Mid maturing variety
- Smooth leaf
- Produces large bolls with a cluster fruiting pattern
- Adapted to dryland and irrigated systems

Phytogen 375 WRF

- In-determinant, early maturing variety with broad adaptation
- Semi-smooth leaf
- Medium-tall plant height
- Excellent seedling vigor
- Has atypical high degree of yield stability and quality for an early maturing cotton

Phytogen 367WRF

- Early maturing variety
- Semi-smooth leaf
- Medium-tall plant height
- Excellent seedling vigor
- Good storm tolerance
- Root Knot Nematode tolerance
- Performs well on both irrigated and dryland fields

Phytogen 485 WRF

- Indeterminant, early-mid maturing variety with broad adaptation
- Hairy leaf
- Relatively tall plant height
- Excellent seedling vigor
- Good fiber package

Phytogen 565 WRF

- Mid-full maturing variety with broad adaptation
- Very good seedling vigor
- Excellent fiber properties
- Medium-tall plant height
- Good storm tolerance
- Semi-smooth leaf
- Medium-tall plant height
- Performs well on both irrigated and dryland fields

Stoneville 4288 B2RF

- Early-mid variety
- Excellent early season vigor
- Broadly adapted across the Cotton Belt
- Outstanding yield potential
  Responds well to Stance plant growth regulator
- Very good fiber package

Stoneville 4498 B2RF

- Early-mid variety
- Medium-tall plant with compact shape
- Low PGR needs
- Features good fiber properties

Stoneville 4554B2RF

- Early-mid variety
- Medium plant height with compact shape
- Responds well to PGR use
- Features good fiber properties

Stoneville 5288 B2RF

- Medium maturity variety
- Features excellent seedling vigor and sets a exhibits a high level of fruiting nodes
- Well suited for irrigated and dryland conditions
- Low PGR needs
- Features good fiber properties
- Benefits from an early, aggressive harvest aid management strategy
- Well adapted to the Southwest

Stoneville 5327 B2RF

- Medium maturity variety
- Features a stovepipe fruiting habit
- Aggressive growth habit, so does have a moderate PGR requirement under favorable growing conditions
- Features good fiber properties

Stoneville 5458 B2RF

- Medium maturity
- Exceptional yield potential
- Root-knot nematode tolerance
- Good fiber quality
- Excellent seedling vigor
- High lint percent

Figure 1.

First 40 Days – Fruiting to Finish

The Most Critical Period in Cotton Production
Expert Recommendations of Best Management Practices for an Efficient, Cost Effective Cotton Production System

Variety Selection

Cultivar selection is the most important decision made in the production enterprise. This decision has a lasting effect on the crop's early-season vigor and on overall plant health and uniformity during the *First 40 Days.* The crop's ultimate yield and fiber quality potential at harvest begin with variety selection and seed quality.

❖ *Consider planting disease tolerant varieties, or those that have at least some resistance, where disease is a problem*

Choose Varieties with Genetic Potential for Higher Yield and Excellent Fiber Quality

Yield remains the ultimate measure of the crop, although the ever-increasing demand for higher fiber quality makes this factor a close second in priority. With more than 70% of the U.S. crop exported, fiber quality will become the single most important factor for U.S. cotton in the foreseeable future. International mill standards and specifications are higher than domestic mills.

❖ *Long staple length - 35 to 36 (1.08 – 1.13 inches)*
❖ *High strength - 28 to 29 g/tex*
❖ *Premium micronaire - 3.8 to 4.6*
❖ *High uniformity index - 82*
❖ *Smooth leaf with plant conformation suitable for efficient harvest - 21/31 Grades 2-3 leaf*

Plant Several Varieties: Consider Specific Traits and Crop Maturity after Yield and Quality

Consider planting 3 to 4 varieties to determine which cultivars and trait combinations perform best on your farms. Multiple varieties also minimizes the risk of planting the entire farm to a potentially poor performing variety or using traits that do not add value to the individual cropping system.

❖ *Always evaluate more than one year of variety data prior to planting large acreage to a new cultivar*

Select the Highest Quality Seed for Planting

High quality seed is critical to early success and the crop's ultimate performance. Rapid germination and emergence is best, because it narrows the window for seedling disease and minimizes pest impact. In addition to the standard warm germination test, a cool germination test is recommended. Cool/Warm Vigor Index of 160 is best (e.g. 90 warm germ + 70 cool germ = 160)

❖ *Early planting into cool soils requires the best vigor index available in the variety you are planting*
  ❖ *CWVI > 160 = Excellent*
  ❖ *CWVI 140 – 159 = Good*
  ❖ *CWVI 120 – 139 = Fair*
  ❖ *CWVI < 120 = Poor*

Figure 2 .

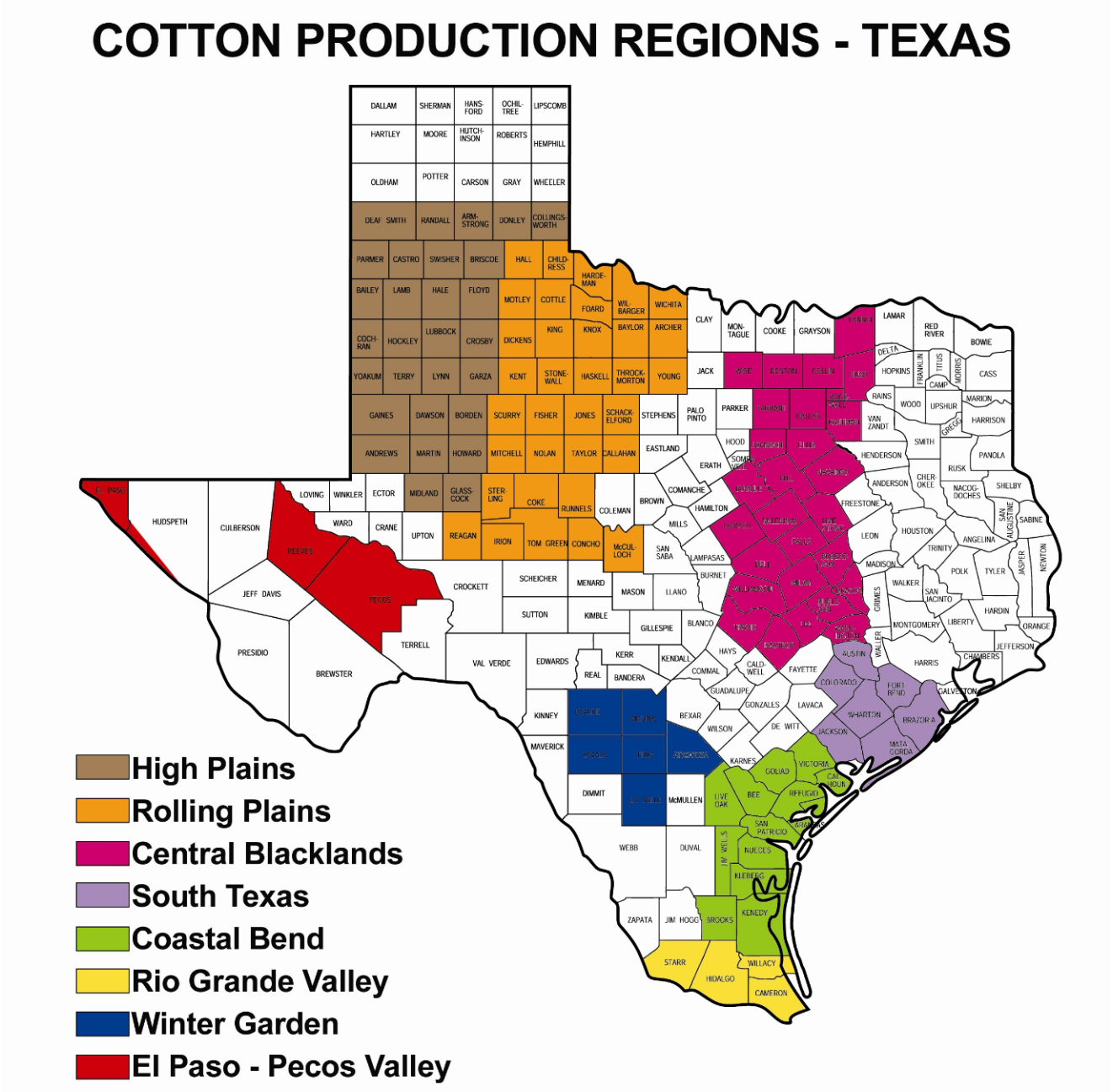
COTTON PRODUCTION REGIONS - TEXAS
High Plains
Rolling Plains
Central Blacklands
South Texas
Coastal Bend
Rio Grande Valley
Winter Garden
El Paso - Pecos Valley

Table 1. Trial, Cooperator, Planting date, harvest date, row spacing, plot dimensions and area of 2010 Texas AgriLife Extension RACE Trials harvested.

County	Cooperator	Planting Date	Harvest Date	Row Spacing (inches)	Plot Dimensions	Irrigated or Dryland	Area harvested/plot
Cameron	James Bauer	Mar 24	Aug 13	40	12 rows x 1485 ft	Irrigated	1.36 acres
Nueces	TX AgriLife Research Farm	Mar 24	Aug 16	38	2 rows x 35 ft	No	0.005 acres
Nueces	Jim Massey	Mar 27	Aug 27	30	6 rows x 1520 ft	No	0.52 acres
San Patricio	Robert Rieder	Mar 26	Aug 28	38	6 rows x 650 ft	No	0.28 acres
Refugio	Venture Farms	Apr 7	Sept 2	40	6 rows x 800 ft	No	0.37 acres
Victoria	Justin Leita	Mar 31	Aug 28	38	6 rows x 600 ft	No	0.26 acres
Calhoun	David Hahn	Apr 9	Oct 8	38	6 rows x 1105 ft	No	0.48 acres
DeWitt	Joseph Repondek	May 1	Sept 27	38	4 rows x 1395 ft	No	0.41 acres
Jackson	David Sappington	Apr 5	Sept 15	38	6 rows x 1300 ft	Dryland	0.57 acres
Matagorda	Hansen Farms	Apr 9	Sept 14	40	8 rows x 1230 ft	Dryland	0.75 acres
Wharton	Kresta Farms	Apr 10	Oct 6	40	6 rows x 1390 ft	Dryland	0.64 acres
Colorado	Mahalitc Farms	Apr 2	Sept 12	36	8 rows x 900 ft	Irrigated	0.50 acres
Brazos	Higginbottom Farms	May 14	Oct 11	30	8 rows x 1000 ft	Irrigated	0.46 acres

County	Cooperator	Planting Date	Harvest Date	Row Spacing (inches)	Plot Dimensions	Irrigated or Dryland	Area harvested/plot
Williamson	Prinz Farms	Apr 13	Sept 16	30	12 rows x 1015 ft	Dryland	0.70 acres
Milam	Beckhusen Farms	Apr 12	Oct 6	30	4 rows x 1108 ft	Dryland	0.25 acres
Bexar	Ernie Schrimer	Apr 6	Sept 28	36	4 rows x 1700 ft	Irrigated	0.39 acres
Nueces (LLB2)	Lawhon Farms	Mar 26	Aug 17	38	6 rows x 1822 ft	No	0.79 acres
Burleson (LLB2)	TX AgriLife Research Farm	Apr 16	Sept 21	38	4 rows x 310 ft	Yes	0.05 acres
Matagorda (Conventional)	Hansen Farms	Apr 5	Aug 30	40	8 rows x 489 ft	No	0.30 acres
Wharton (Conventional)	Michael & Lonnie Beard	Apr 3	Aug 26	39	8 rows x 1092 ft	No	0.65 acres

Table 2. Variety ranking based on lint yield[1], Lower Rio Grande Valley and Coastal Bend Counties, 2010.

Variety	Trial								Mean
	Cameron	EXT CTR	Nueces-2	San Pat	Refugio	Victoria	DeWitt	Calhoun	
DP 0920 B2RF	2	2	2	1	1	3	9	2	2.75
FM 1740 B2RF	1	1	1	6	2	5	6	5	3.38
ST 5458 B2RF		6	3	2	4	1	4	4	3.43
PHY 367 WRF	3	3	4	5	7		2		4.00
DP 1032 B2RF	5	5	8	3	3		1		4.17
PHY 375 WRF	7	4	6	4	5	2	8	1	4.63
CG 3220 B2RF	4	7	7	8	6	4	3	3	5.25
ST 4288 B2RF		8	5	7	10	6	7	6	7.00
AT APEX B2RF	6	9	9	9	8		5		7.67
FM 9170 B2RF				10	9	7	10	7	8.60

[1] Ranking is performed only on varieties that were planted at a minimum of 5 locations.

Table 3. Variety ranking based on lint yield[1], Upper Gulf Coast Counties and Wintergarden, 2010.

Variety	Trial						Mean
	Jackson	Matagorda	Wharton	Colorado	Brazos	Bexar	
DP 0920 B2RF	2	3	2	5			3.0
PHY 375 WRF	1	5	1	9	3	1	3.3
ST 5458 B2RF	4	6	4	1	2	5	3.7
DP 1048 B2RF	8	1	5	2	5	3	4.0
FM 1740 B2RF	3	8	6	8	1	2	4.7
PHY 565 B2RF	5	2	3	7	7	9	5.5
CG 3220 B2RF	7	7	7	6	4	4	5.8
ST 4288 B2RF	9	4	8	3			6.0
FM 9170 B2RF	6	9	9	10		6	8.0

[1] Ranking is performed only on varieties that were planted at a minimum of 4 locations.

Table 4. Variety ranking based on lint yield[1], Southern Blacklands, 2010.

Variety	Trial	
	Williamson	Milam
ST 4288 B2RF		1
CG 3220 B2RF	3	3
DP 1032 B2RF	5	2
PHY 375 WRF	4	4
ST 5327 B2RF	2	7
PHY 565 B2RF	1	10
DG 2570 B2RF	6	6
FM 9170 B2RF	7	
FM 1740 B2RF	10	5
ST 4498 B2RF	8	
DP 1048 B2RF		8
AT 65207 B2RF	9	9

Table 5. Uniform Stacked-Gene Cotton Variety Trials, 2010
Cameron County
Cooperator: James Bauer
Enrique Perez, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
FM 1740 B2RF	1164	a	44.0	bc	4.93	b	1.11	bcd	29.17	abc	83.73	b	52.73	bc	614.00	a
DP 0920 B2RF	1123	a	44.8	b	5.33	a	1.08	d	27.00	e	82.60	d	49.80	d	560.30	abc
PHY 367 WRF	1104	ab	43.3	cd	4.70	c	1.12	ab	29.27	ab	83.43	bc	53.45	ab	590.00	ab
CG 3220B2RF	1053	abc	43.4	cd	4.93	b	1.09	cd	27.87	cde	83.37	bc	52.23	c	550.00	bc
DP 1032 B2RF	1009	bc	46.6	a	4.70	c	1.12	b	28.17	b-e	82.93	cd	53.28	abc	537.30	bc
FM 9160 B2RF	1005	bc	41.9	e	4.50	d	1.15	a	30.00	a	85.43	a	54.08	a	543.30	bc
AT Apex B2RF	981	c	42.8	d	4.70	c	1.11	bc	27.77	de	83.30	bcd	53.32	abc	523.00	c
PHY 375 WRF	960	c	43.7	cd	4.67	cd	1.09	d	28.53	bcd	83.70	b	52.87	bc	507.30	c
Mean	**1049.6**		**43.81**		**4.81**		**1.11**		**28.47**		**83.56**		**52.72**		**553.17**	
P>F	0.0138		0.0001		0.0001		0.0001		0.008		0.0001		0.0001		0.0432	
LSD (P=.05)	112.1		0.896		0.182		0.0247		1.384		0.723		1.1544		62.1	
STD DEV	64.02		0.512		0.104		0.0141		0.79		0.413		0.6591		35.46	
CV%	6.1		1.17		2.16		1.27		2.78		0.49		1.25		6.41	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 6. Uniform Stacked-Gene Cotton Variety Trials, 2010
Texas AgriLife Research and Extension Center, Corpus Christi, Texas
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist
Rudy Alaniz, Technician, Clinton Livingston, Technician

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
FM 1740 B2RF	1429	a	43.2	bc	5.23	c	1.10	bcd	29.10	a	83.15	a	53.62	a	721.50	a
DP 0920 B2RF	1354	ab	44.2	ab	5.55	ab	1.11	abc	27.83	a	83.00	a	53.62	a	677.50	ab
PHY 367 WRF	1321	bc	44.2	ab	5.15	cd	1.09	cd	28.83	a	82.45	a	53.62	a	666.30	ab
PHY 375 WRF	1284	bcd	44.4	ab	5.2	cd	1.06	d	27.08	a	82.05	a	53.60	a	632.50	bcd
DP 1032 B2RF	1279	b-e	44.9	a	5.18	cd	1.15	a	30.30	a	83.20	a	53.65	a	654.80	bc
ST 5458 B2RF	1228	cde	43.6	ab	5.63	a	1.09	cd	28.68	a	81.70	a	53.61	a	606.50	cd
FM 9160 B2RF	1227	cde	42.2	cd	5.05	de	1.11	abc	27.58	a	83.55	a	53.60	a	627.30	bcd
CG 3220 B2RF	1195	def	43.5	bc	5.23	c	1.08	cd	27.70	a	83.23	a	53.61	a	594.30	d
ST 4288 B2RF	1182	ef	41.8	d	5.43	b	1.11	abc	27.95	a	82.78	a	53.59	a	591.00	d
AT Apex B2RF	1108	f	41.4	d	4.98	e	1.14	ab	28.00	a	83.20	a	53.59	a	580.50	d
Mean	**1260.7**		**43.33**		**5.26**		**1.1**		**28.3**		**82.83**		**53.61**		**635.20**	
P>F	0.0001		0.0001		0.0001		0.0062		0.0719		0.085		1.0000		0.0003	
LSD (P=.05)	98.6		1.324		0.167		0.0416		NS		NS		NS		55.38	
STD DEV	67.9		0.913		0.115		0.0286		1.306		0.84		0.0000		38.17	
CV%	5.39		2.11		2.19		2.6		4.61		1.01		0.0		6.01	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 7. Uniform Stacked-Gene Cotton Variety Trials, 2010
Nueces County
Cooperator: Jim Massey IV
Jeff Stapper, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
FM 1740 B2RF	1446	a	38.2	de	4.77	bc	1.15	bc	29.57	bc	83.67	a	53.70	a	776.30	a
DP 0920 B2RF	1403	a	39.6	b	5.13	a	1.12	de	27.83	d	82.60	a	51.18	c	718.00	b
ST 5458 B2RF	1315	b	37.9	ef	5.10	a	1.13	cd	29.93	ab	83.03	a	52.32	b	687.30	bc
PHY 367 WRF	1280	bc	38.7	cd	4.60	d	1.16	abc	30.87	a	83.53	a	53.87	a	689.70	bc
ST 4288 B2RF	1251	bcd	36.0	g	4.87	b	1.16	ab	29.47	bc	83.80	a	52.92	ab	662.00	cd
PHY 375 WRF	1231	cde	38.9	bc	4.50	d	1.10	e	28.73	bcd	82.70	a	53.20	ab	655.00	cd
CG 3220 B2RF	1208	c-f	38.0	de	4.80	b	1.12	de	28.57	cd	83.37	a	53.35	ab	644.30	cd
DP 1032 B2RF	1186	def	40.5	a	4.63	cd	1.14	bcd	29.13	bc	82.77	a	53.50	a	634.70	d
FM 9160 B2RF	1167	ef	37.8	ef	4.50	d	1.14	cd	28.70	bcd	83.50	a	53.55	a	625.00	d
AT Apex B2RF	1150	f	37.2	f	4.50	d	1.17	a	28.57	cd	83.93	a	53.60	a	616.70	d
Mean	**1263.7**		**38.27**		**4.74**		**1.14**		**29.14**		**83.29**		**53.12**		**670.90**	
P>F	0.0001		0.0001		0.0001		0.0002		0.0048		0.1945		0.0023		0.0001	
LSD (P=.05)	80.59		0.707		0.164		0.0245		1.247		NS		1.047		48.52	
STD DEV	46.98		0.412		0.096		0.0143		0.727		0.664		0.644		28.29	
CV%	3.72		1.08		2.02		1.25		2.5		0.8		1.21		4.22	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 8. Uniform Stacked-Gene Cotton Variety Trials, 2010
San Patricio County
Cooperator: Robert Rieder
Duane Campion, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
DP 0920 B2RF	1557	a	43.9	a	5.13	ab	1.13	c	28.60	d	83.37	a	51.38	c	800.30	a
ST 5458 B2RF	1549	a	41.8	c	5.30	a	1.14	bc	31.27	ab	83.40	a	51.02	c	790.00	a
DP 1032 B2RF	1439	a	43.8	a	4.63	e	1.20	a	31.77	a	84.83	a	54.12	a	779.30	a
PHY 375 WRF	1439	a	43.4	a	4.80	cde	1.14	bc	29.30	cd	83.67	a	53.78	a	774.00	a
PHY 367 WRF	1437	a	42.9	ab	4.83	cde	1.13	c	29.87	bcd	83.27	a	52.85	ab	760.70	a
FM 1740 B2RF	1436	a	42.1	bc	4.87	cde	1.15	bc	30.27	a-d	83.77	a	53.15	ab	763.70	a
ST 4288 B2RF	1433	a	39.7	e	4.90	bcd	1.17	ab	30.53	abc	83.70	a	53.87	a	772.30	a
CG 3220 B2RF	1429	a	41.9	bc	5.03	bc	1.14	bc	29.17	cd	83.63	a	52.25	bc	746.70	a
AT APEX B2RF	1401	a	41.0	cd	4.67	de	1.17	ab	30.27	a-d	83.77	a	53.92	a	755.70	a
FM 9170 B2RF	1385	a	40.4	de	4.33	f	1.20	a	30.97	abc	83.87	a	54.00	a	747.70	a
Mean	**1451**		**42.11**		**4.85**		**1.16**		**30.2**		**83.73**		**53.03**		**NS**	
P>F	0.2471		0.0001		0.0001		0.0023		0.0406		0.2913		0.0007		0.9284	
LSD (P=.05)	NS		1.068		0.252		0.0361		1.828		NS		1.3902		NS	
STD DEV	82.20		0.622		0.147		0.021		1.066		0.653		0.8104		49.35	
CV%	5.67		1.45		3.03		1.82		3.53		0.78		1.53		6.42	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 9. Uniform Stacked-Gene Cotton Variety Trials, 2010
Refugio County
Cooperator: Venture Farms
Jerry Gray, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
DP 0920 B2RF	1251	a	43.1	a	5.23	a	1.13	bc	29.00	cd	84.20	a	51.13	c	639.70	a
FM 1740 B2RF	1209	ab	40.3	cd	4.83	bc	1.13	bc	30.47	abc	84.67	a	53.18	ab	642.70	a
DP 1032 B2RF	1201	ab	42.9	ab	4.70	b-e	1.15	b	30.20	abc	83.83	a	53.92	ab	647.30	a
ST 5458 B2RF	1198	ab	40.9	c	4.96	ab	1.13	bc	30.99	ab	83.23	a	52.98	ab	633.40	a
PHY 375 WRF	1157	abc	41.9	b	4.77	bcd	1.12	c	28.50	d	83.57	a	53.38	ab	617.30	ab
CG 3220 B2RF	1136	bcd	40.6	cd	4.93	b	1.12	c	28.93	cd	84.07	a	52.93	ab	601.00	ab
PHY 367 WRF	1125	bcd	40.7	cd	4.60	cde	1.15	b	31.13	ab	84.23	a	53.97	a	606.70	ab
AT APEX B2RF	1067	cd	39.7	de	4.50	de	1.18	a	29.97	bcd	84.67	a	53.83	ab	574.30	bc
FM 9170 B2RF	1065	cd	40.1	cd	4.43	e	1.18	a	31.67	a	83.83	a	54.02	a	575.30	bc
ST 4288 B2RF	1047	d	38.9	e	4.90	b	1.15	b	30.93	ab	84.03	a	52.52	bc	549.00	c
Mean	**1145.3**		**40.9**		**4.79**		**1.15**		**30.18**		**84.03**		**53.19**		**608.68**	
P>F	0.0074		0.0001		0.0001		0.0002		0.0057		0.5988		0.0121		0.0056	
LSD (P=.05)	105.3		0.968		0.298		0.0242		1.562		NS		1.41		49.27	
STD DEV	61.1		0.562		0.173		0.014		0.907		0.86		0.8165		28.6	
CV%	5.34		1.37		3.61		1.23		3.0		1.02		1.54		4.7	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 10. Uniform Stacked-Gene Cotton Variety Trials, 2010
Victoria County
Cooperator: Justin Leita
Joe Janak, County Extension Agent- Agriculture and Natural Resources
Stephen Biles, Extension Agent-IPM-Victoria, Calhoun, and Refugio Counties
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
ST 5458 B2RF	1378	a	41.5	ab	5.33	a	1.18	de	32.47	bc	83.67	a	50.70	d	698.70	a
PHY 375 WRF	1292	ab	42.1	a	4.83	cd	1.17	ef	31.07	cde	85.47	a	53.48	ab	691.00	ab
DP 0920B2RF	1291	ab	42.6	a	5.13	b	1.15	f	30.37	e	84.43	a	51.73	cd	668.00	abc
CG 3220 B2RF	1269	b	40.7	bc	4.97	bc	1.19	cd	31.57	cde	84.63	a	52.65	bc	668.30	abc
FM 1740 B2RF	1221	bc	42.6	a	5.10	b	1.17	ef	34.30	a	85.27	a	51.98	c	635.00	bcd
ST 4288B2RF	1193	bcd	39.5	c	5.00	bc	1.21	abc	31.83	cd	84.73	a	52.65	bc	628.30	cde
DG 2520 B2RF	1116	cde	39.9	c	4.67	de	1.20	c	30.87	de	85.17	a	54.00	a	602.30	de
PHY 565 WRF	1111	de	42.1	a	4.83	cd	1.22	ab	34.53	a	85.43	a	54.22	a	602.00	de
DP 1048 B2RF	1079	e	42.5	a	4.47	f	1.21	bc	31.07	cde	84.97	a	54.15	a	584.30	de
FM 9170 B2RF	1050	e	40.4	bc	4.50	ef	1.23	a	33.47	ab	85.10	a	54.18	a	569.00	e
Mean	**1200.1**		**41.4**		**4.88**		**1.19**		**32.2**		**84.89**		**52.98**		**634.70**	
P>F	0.0001		0.0002		0.0001		0.0001		0.0001		0.2267		0.0001		0.0016	
LSD (P=.05)	105.6		1.31		0.175		0.0232		1.451		NS		1.1441		59.55	
STD DEV	61.6		0.764		0.102		0.0136		0.846		0.782		0.6669		34.71	
CV%	5.1		1.85		2.09		1.14		2.63		0.92		1.26		5.47	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 11. Uniform Stacked-Gene Cotton Variety Trials, 2010
Calhoun County
Cooperator: David Hahn
Chance Crossland, County Extension Agent- Agriculture and Natural Resources
Stephen Biles, Extension Agent-IPM, Calhoun, Victoria, and Refugio Counties
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
PHY 375 WRF	808	a	45.3	b	5.10	bc	1.12	a	28.60	a	84.00	a	51.93	a	419.73	a
DP 0920 B2RF	784	a	46.6	a	5.55	a	1.14	a	29.40	a	83.95	a	50.55	a	396.42	a
CL 3220 B2RF	780	a	43.9	c	5.25	ab	1.12	a	28.35	a	83.55	a	50.78	a	396.21	a
ST 5458 B2RF	755	a	43.8	c	5.45	ab	1.16	a	30.85	a	83.30	a	50.55	a	382.22	a
CL 3520 B2RF	717	a	42.6	d	5.05	bc	1.15	a	28.15	a	83.30	a	51.23	a	367.61	a
FM 1740 B2F	692	a	45.0	b	5.40	ab	1.14	a	29.45	a	84.15	a	50.98	a	352.81	a
ST 4288 B2RF	690	a	42.2	d	5.45	ab	1.18	a	28.45	a	83.05	a	50.73	a	349.90	a
PHY 565 WRF	621	a	45.4	b	5.10	bc	1.14	a	29.75	a	83.35	a	51.48	a	319.85	a
DP 1048 B2RF	595	a	45.7	b	5.05	bc	1.16	a	28.55	a	83.30	a	51.25	a	307.77	a
FM 9170 B2F	572	a	43.9	c	4.80	c	1.18	a	29.85	a	83.00	a	53.80	a	305.46	a
Mean	**701.8**		**44.4**		**5.22**		**1.15**		**29.14**		**83.5**		**51.33**		**359.80**	
P>F	0.0591		0.0001		0.041		0.091		0.2899		0.895		0.1027		0.0925	
LSD (P=.05)	NS		0.77		0.413		NS		NS		NS		NS		NS	
STD DEV	67.94		0.34		0.183		0.0172		1.008		0.885		0.8851		35.42	
CV%	9.68		0.77		3.5		1.5		3.46		1.06		1.72		9.85	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 12. Uniform Stacked-Gene Cotton Variety Trials, 2010
DeWitt County
Cooperator: Joseph Respondek
Anthony Netardus, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
DP 1032 B2RF	1493	a	40.7	a	4.40	a	1.17	bc	29.70	bc	82.33	a	53.60	cd	799.70	a
PHY 367 WRF	1443	a	38.3	bc	4.40	a	1.17	bcd	30.23	ab	83.77	a	53.93	abc	778.00	a
CG 3220 B2RF	1437	a	38.9	bc	4.40	a	1.15	cde	28.47	cde	83.77	a	53.65	cd	770.30	a
ST 5458 B2RF	1430	a	38.2	bc	4.60	a	1.18	bc	30.87	ab	83.87	a	54.03	ab	772.70	a
AT APEX B2RF	1362	a	37.2	cd	4.23	a	1.19	ab	29.60	bcd	83.67	a	53.83	bc	733.00	a
FM 1740 B2RF	1336	a	40.9	a	4.57	a	1.13	de	30.50	ab	83.30	a	53.93	abc	720.70	a
ST 4288 B2RF	1323	a	36.0	d	4.50	a	1.19	ab	29.57	b-e	83.17	a	53.70	bcd	710.30	a
PHY 375 WRF	1322	a	39.7	ab	4.30	a	1.12	e	28.30	de	82.20	a	53.37	d	707.30	a
DP 0920 B2RF	1250	a	39.6	ab	4.60	a	1.16	bcd	28.20	e	82.67	a	53.45	d	668.30	a
FM 9170 B2RF	1091	a	39.4	ab	4.07	a	1.22	a	31.23	a	84.13	a	54.23	a	591.70	a
Mean	**1348.5**		**38.89**		**4.41**		**1.17**		**29.67**		**83.29**		**53.77**		**725.20**	
P>F	0.5596		0.0002		0.1706		0.0011		0.0014		0.1348		0.0009		0.5833	
LSD (P=.05)	NS		1.69		NS		0.0388		1.389		NS		0.336		NS	
STD DEV	214.6		0.987		0.231		0.0226		0.81		0.869		0.1959		116.06	
CV%	15.92		2.54		5.24		1.94		2.73		1.04		0.36		16.0	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 13. Uniform Stacked-Gene Cotton Variety Trials, 2010
Jackson County
Cooperator: David Sappington
Michael Hiller, County Extension Agent
Clyde Crumley, Extension Agent – IPM

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/acre)	
PHY 375 WRF	1654	a	44.3	a	4.5	bcd	1.17	de	29.7	cde	85.0	a	53.90	a	891	a
FM 1740 B2RF	1395	bc	42.3	c	4.6	bc	1.17	de	30.9	bc	85.9	a	54.15	a	756	b
DP 0920 B2RF	1464	ab	44.8	a	5.1	a	1.16	e	29.1	de	84.4	a	51.55	b	755	b
ST 5458 B2RF	1361	bc	42.2	c	5.0	a	1.19	cd	30.6	bcd	84.1	a	53.88	a	733	b
PHY 565 WRF	1277	bc	41.3	cd	4.5	bcd	1.21	abc	32.9	a	85.7	a	54.18	a	692	b
FM 9170 B2RF	1272	bc	42.7	bc	4.4	cd	1.20	bc	31.5	ab	84.5	a	54.12	a	689	b
DP 09R-555	1271	bc	44.0	ab	4.7	b	1.21	abc	31.6	ab	85.6	a	54.12	a	688	b
CG 3220 B2RF	1261	bc	42.2	c	4.6	bc	1.15	e	29.8	cde	84.3	a	53.87	a	679	b
DP 1048 B2RF	1209	cd	41.8	cd	4.5	bcd	1.22	ab	28.9	e	84.6	a	53.83	a	650	bc
ST 4288 B2RF	1031	d	40.4	d	4.3	d	1.23	a	30.5	bcd	84.7	a	53.95	a	555	c
Mean	**1319**		**42.6**		**4.6**		**1.19**		**30.5**		**84.9**		**53.76**		**709**	
P>(F)	0.002		0.000		0.000		0.0001		0.001		0.601		0.0001		0.003	
LSD (P=.05)	222.89		1.510		0.201		0.025		1.564		NS		0.367		119.95	
STD DEV	129.93		0.88		0.12		0.01		0.91		1.21		0.21		69.92	
CV %	9.85		2.06		2.53		1.23		2.98		1.42		0.40		9.87	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 14. Uniform Stacked-Gene Cotton Variety Trials, 2010
Matagorda County
Cooperator: Hansen Farms
Brent Batchelor, County Extension Agent
Clyde Crumley, Extension Agent – IPM

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
DP 0935 B2RF	1263	a	46.1	ab	4.7	c	1.16	fg	30.3	def	84.6	a	53.93	a	681	a
DP 1048 B2RF	1209	ab	46.4	ab	4.4	d	1.21	bcd	29.9	ef	84.7	a	53.92	a	652	ab
PHY 565 WRF	1144	bcd	45.5	bc	4.4	d	1.21	bcd	32.1	abc	85.2	a	54.15	a	620	bc
DP 0920 B2RF	1165	bc	47.2	a	4.9	b	1.15	g	29.4	f	84.6	a	53.08	b	618	bc
ST 4288 B2RF	1083	def	42.7	e	4.8	bc	1.23	b	31.3	b-e	84.9	a	54.12	a	586	cd
PHY 375 WRF	1082	def	45.1	bcd	4.4	d	1.17	efg	30.6	c-f	85.4	a	54.12	a	585	cd
ST 5458 B2RF	1111	cde	46.5	ab	5.2	a	1.20	bcd	31.8	a-d	85.4	a	51.63	c	574	de
AT 81144 B2RF	1039	fg	44.5	cd	4.1	e	1.28	a	33.1	a	86.1	a	54.40	a	565	de
CG 3220 B2RF	1046	efg	45.1	bcd	4.7	c	1.14	g	29.8	ef	84.1	a	53.82	a	563	de
AT 81220 B2RF	1025	fg	43.8	de	4.4	d	1.20	cde	30.6	c-f	85.1	a	54.05	a	554	de
FM 1740 B2RF	988	g	46.5	ab	4.9	b	1.19	def	32.6	ab	85.0	a	54.12	a	535	e
FM 9170 B2RF	830	h	43.6	de	4.3	d	1.23	bc	32.7	ab	85.4	a	54.28	a	451	f
Mean	**1082**		**45.3**		**4.6**		**1.20**		**31.2**		**85.0**		**53.80**		**582**	
P>(F)	0.0001		0.0001		0.0001		0.0001		0.0002		0.6087		0.0001		0.0001	
LSD (P=.05)	71.659		1.55		0.166		0.0345		1.494		1.675		0.7264		41.64	
STD DEV	42.316		0.91		0.098		0.0204		0.882		0.989		0.429		24.59	
CV %	3.91		2.02		2.13		1.7		2.83		1.16		0.8		4.22	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 15. Uniform Stacked-Gene Cotton Variety Trials, 2010
Wharton County
Cooperator: Kresta Farms
Peter McGuill, County Extension Agent
Clyde Crumley, Extension Agent – IPM

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
PHY 375 WRF	957	a	40.1	a	4.6	de	1.10	d	27.5	d	83.0	a	53.25	ab	510	a
DP 0920 B2RF	933	ab	38.6	ab	4.9	b	1.10	d	26.7	e	82.3	abc	52.95	b	494	ab
PHY 565 WRF	913	abc	37.6	abc	4.7	d	1.16	a	30.4	a	83.2	a	53.85	a	492	ab
DP 1048 B2RF	885	abc	38.5	ab	4.5	ef	1.16	a	27.5	de	81.8	bcd	53.35	ab	472	abc
ST 5458 B2RF	899	abc	39.8	a	5.1	a	1.12	c	27.6	d	81.8	bcd	51.56	c	463	abc
FM 1740 B2RF	862	bc	39.5	ab	4.8	bc	1.12	c	28.6	c	82.9	ab	53.44	ab	461	abc
CG 3220 B2RF	840	bcd	36.8	bc	4.7	cd	1.09	d	27.0	de	81.7	cd	52.95	b	445	bcd
ST 4288 B2RF	831	cd	35.5	c	4.7	cd	1.12	c	27.8	cd	81.1	d	53.13	b	441	cd
FM 9170 B2RF	761	d	35.4	c	4.4	f	1.14	b	29.4	b	82.3	a-d	53.51	ab	407	d
DP 161 B2RF	755	d	35.2	c	4.7	cd	1.14	bc	28.6	c	82.4	abc	53.38	ab	403	d
Mean	**863**		**37.7**		**4.7**		**1.13**		**28.1**		**82.2**		**53.14**		**459**	
P>(F)	0.001		0.005		0.000		0.0001		0.000		0.019		0.000		0.002	
LSD (P=.05)	93.580		2.880		0.141		0.016		0.803		1.127		0.678		50.07	
STD DEV	64.49		1.99		0.10		0.01		0.55		0.78		0.47		34.51	
CV %	7.47		5.27		2.06		0.98		1.97		0.94		0.88		7.52	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 16. Uniform Stacked-Gene Cotton Variety Trials, 2010
Colorado County
Cooperator: Mahalitc Farms
Kara Matheney, County Extension Agent

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Loan Value (¢/lbs)	
ST 5458 B2RF	1255	a	41.6	b	5.2	a	1.20	bc	31.8	b	84.6	a	52.65	b	660	a
DP 1048 B2RF	1122	b	42.6	ab	4.4	de	1.22	abc	29.0	d	85.0	a	53.70	a	602	b
ST 4288 B2RF	1080	bc	38.7	c	4.8	b	1.22	ab	31.3	b	84.9	a	54.15	a	585	bc
DG 2570 B2RF	1040	bc	42.0	b	4.7	bc	1.15	e	30.0	cd	84.5	a	53.85	a	560	bc
DP 0920 B2RF	1031	bc	44.4	a	4.7	bc	1.16	e	29.3	d	84.7	a	53.78	a	554	bc
CG 3220 B2RF	1013	c	41.5	b	4.6	cd	1.16	de	29.6	d	84.3	a	53.78	a	545	c
PHY 565 WRF	899	d	41.7	b	4.4	e	1.23	a	33.1	a	86.3	a	54.30	a	488	d
FM 1740 B2RF	880	d	41.7	b	4.7	bc	1.19	cd	31.6	b	85.7	a	54.22	a	478	d
PHY 375 WRF	852	d	42.5	ab	4.3	e	1.17	de	30.0	cd	84.8	a	53.97	a	459	d
FM 9170 B2RF	706	e	40.4	bc	4.4	e	1.20	bc	31.0	bc	84.9	a	54.20	a	383	e
Mean	**988**		**41.7**		**4.6**		**1.19**		**30.7**		**85.0**		**53.86**		**531**	
P>(F)	0.0001		0.007		0.0001		0.0001		0.0001		0.491		0.016		0.0001	
LSD (P=.05)	101.598		2.210		0.168		0.029		1.285		1.759		0.784		56.120	
STD DEV	59.23		1.29		0.10		0.02		0.75		1.03		0.46		32.71	
CV %	6.00		3.09		2.12		1.42		2.44		1.21		0.85		6.15	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 17. Uniform Stacked-Gene Cotton Variety Trials, 2010
Brazos County
Cooperator: Johnnie Osborn
Eric Zimmerman, County Extension Agent

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
FM 1740 B2RF	1853	a	44.6	bc	4.4	bcd	1.15	a-d	30.4	bcd	84.4	a	53.98	a	1001	a
DP 1028 B2RF	1832	ab	47.3	a	4.6	a	1.16	abc	29.9	b-e	84.9	a	53.95	a	989	ab
ST 5458 B2RF	1783	ab	43.7	cde	4.5	ab	1.17	ab	30.6	bcd	84.1	a	54.02	a	963	ab
PHY 375 B2RF	1780	ab	44.6	bc	4.1	f	1.15	a-e	28.9	cde	83.7	a	53.75	a	956	ab
CG 3220 B2RF	1698	abc	42.9	de	4.1	ef	1.16	abc	29.5	b-e	83.9	a	53.90	a	915	abc
ST 4498 B2RF	1688	a-d	43.5	cde	4.2	def	1.11	e	31.2	b	84.1	a	53.90	a	910	abc
FM 9160 B2RF	1686	a-d	43.6	cde	4.1	f	1.17	abc	29.1	cde	83.1	a	53.77	a	907	bc
DP 1048 B2RF	1678	bcd	45.8	b	4.5	abc	1.16	abc	28.3	e	83.4	a	53.52	a	898	bcd
AT 65207 B2RF	1539	cde	42.7	e	4.3	cde	1.14	b-e	30.1	b-e	84.2	a	53.90	a	830	cd
PHY 565 B2RF	1524	de	44.3	cd	4.2	ef	1.18	a	34.3	a	85.0	a	54.25	a	827	cd
DG 2570 B2RF	1501	e	43.9	cde	4.5	abc	1.13	cde	30.8	bc	84.2	a	53.98	a	810	d
Mean	**1687**		**44.3**		**4.3**		**1.15**		**30.3**		**84.1**		**53.90**		**910**	
P>(F)	0.0016		0.0001		0.0001		0.0268		0.0002		0.5821		0.088		0.002	
LSD (P=.05)	167.26		1.48		0.187		0.0398		1.92		NS		NS		91.89	
STD DEV	98.77		0.87		0.111		0.0235		1.134		1.041		0.2673		54.26	
CV %	5.88		1.97		2.56		2.04		3.76		1.24		0.5		6	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 18. Uniform Stacked-Gene Cotton Variety Trials, 2010
Williamson County
Cooperator: James and Mark Prinz
Bob Whitney, County Extension Agent
Jared Ripple – Extension Agent - IPM

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
PHY 565 B2RF	1028	a	43.9	a	3.9	a	1.11	b	29.5	a	83.5	a	53.65	a	552	a
ST 5327 B2RF	1017	a	44.3	a	3.9	a	1.11	ab	28.2	a	83.4	a	53.42	a	543	a
CG 3220 B2RF	991	a	43.4	a	3.9	a	1.08	bc	28.0	a	83.1	a	53.03	a	525	a
PHY 375 B2RF	986	a	43.6	a	3.9	a	1.10	bc	27.1	a	82.3	a	53.02	a	523	a
DG 2570 B2RF	965	a	37.9	a	4.0	a	1.09	bc	28.6	a	83.7	a	53.25	a	514	a
DP 1032 B2RF	974	a	43.5	a	3.9	a	1.09	bc	26.5	a	81.6	a	51.93	a	503	a
FM 9170 B2RF	956	a	44.1	a	3.5	a	1.15	a	28.2	a	82.0	a	51.73	a	496	a
ST 4498 B2RF	918	a	44.0	a	4.0	a	1.07	c	28.8	a	82.8	a	52.32	a	481	a
FM 1740 B2RF	891	a	41.8	a	3.9	a	1.11	b	27.7	a	83.0	a	53.25	a	475	a
AT 65207 B2RF	897	a	43.5	a	3.9	a	1.08	bc	27.9	a	82.8	a	52.87	a	474	a
DP 1048 B2RF	857	a	43.7	a	3.9	a	1.09	bc	27.0	a	82.2	a	52.53	a	450	a
Mean	**953**		**43.1**		**3.9**		**1.10**		**28.0**		**82.8**		**52.82**		**503**	
P>(F)	0.654		0.221		0.514		0.015		0.230		0.215		0.661		0.572	
LSD (P=.05)	NS		NS		NS		0.036		NS		NS		NS		NS	
STD DEV	108.40		2.61		0.23		0.02		1.27		0.94		1.22		58.43	
CV %	11.38		6.06		5.80		1.89		4.54		1.13		2.31		11.61	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 19. Uniform Stacked-Gene Cotton Variety Trials, 2010
Milam County
Cooperator: Jay Beckhusen
Jon Gersbach, County Extension Agent
Jared Ripple – Extension Agent - IPM

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
ST 4288 B2RF	1121	a	39.4	f	3.73	a	1.08	a	23.9	d	80.2	cd	51.05	ab	572	a
DP 1032 B2RF	1093	ab	42.6	ab	3.63	a	1.08	a	23.9	d	80.0	d	50.05	ab	548	ab
CG 3220 B2RF	1082	ab	40.3	c-f	3.43	a	1.07	a	23.7	d	80.0	d	48.92	bc	529	abc
PHY 375 B2RF	1055	abc	41.8	bc	3.53	a	1.05	a	23.9	d	79.8	d	49.23	abc	518	bcd
ST 5327 B2RF	1018	bcd	41.6	bc d	3.5	a	1.06	a	26.1	a	81.9	ab	50.92	ab	518	bcd
DG 2570 B2RF	1021	a-d	40.0	def	3.33	a	1.07	a	25.8	abc	82.2	a	50.30	ab	513	bcd
DP 1048 B2RF	996	bcd	43.5	a	3.70	a	1.09	a	24.7	a-d	80.8	bcd	51.33	a	511	bcd
FM 1740 B2RF	1045	abc	41.4	b-e	3.33	a	1.05	a	24.5	bcd	80.7	bcd	47.08	c	492	cd
PHY 565 B2RF	937	de	40.0	ef	3.63	a	1.07	a	26.0	ab	80.6	bcd	51.28	a	480	cd
AT 65207 B2RF	965.3	cd	42.0	ab	3.63	a	1.04	a	24.3	cd	81.4	abc	49.2	abc	475	d
FM 9170 B2RF	851.7	e	41.3	b-e	3.4	a	1.107	a	25.0	a-d	80.8	a-d	49.73	ab	424	e
Mean	**1017**		**41.3**		**3.53**		**1.07**		**24.7**		**80.8**		**49.92**		**507**	
P>(F)	0.001		0.001		0.064		0.077		0.0164		0.022		0.0209		0.0007	
LSD (P=.05)	100.4		1.64		NS		NS		1.522		1.366		2.2175		50.29	
STD DEV	58.95		0.96		0.168		0.0229		0.893		0.802		1.3019		29.53	
CV %	5.8		2.33		4.75		2.14		3.61		0.99		2.61		5.82	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 20. Uniform Stacked-Gene Cotton Variety Trials, 2010
Bexar County
Cooperator: Ernie Shirmer
Jason Ott, County Extension Agent

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
PHY 375 B2RF	1402	a	36.1	a	4.2	a	1.21	a	29.8	a	85.0	a	53.95	abc	756	a
FM 1740 B2RF	1342	a	34.2	a	4.3	a	1.21	a	30.0	a	84.6	a	54.10	ab	726	a
DP 1048 B2RF	1326	a	34.3	a	4.1	a	1.18	a	28.7	a	84.4	a	53.87	bcd	714	a
CG 3220 B2RF	1296	a	34.9	a	4.1	a	1.19	a	29.1	a	84.3	a	53.87	bcd	698	a
ST 5458 B2RF	1271	a	34.8	a	4.3	a	1.22	a	30.6	a	84.5	a	54.07	abc	687	a
ST 4498 B2RF	1243	a	34.8	a	4.3	a	1.19	a	29.3	a	83.9	a	53.82	bcd	669	a
DP 1028 B2RF	1227	a	35.1	a	3.9	a	1.21	a	29.1	a	83.7	a	53.70	cd	660	a
FM 9170 B2RF	1207	a	34.1	a	4.3	a	1.22	a	31.1	a	85.5	a	54.08	abc	653	a
AT 65207 B2RF	1164	a	33.7	a	4.3	a	1.17	a	29.2	a	85.2	a	53.92	abc	628	a
DG 2570 B2RF	1157	a	34.1	a	4.4	a	1.16	a	28.7	a	83.9	a	53.53	d	620	a
PHY 565 B2RF	1130	a	33.4	a	4.2	a	1.20	a	30.7	a	84.5	a	54.15	ab	612	a
Mean	**1251**		**34.5**		**4.2**		**1.20**		**29.7**		**84.5**		**53.91**		**675**	
P>(F)	0.905		0.695		0.859		0.054		0.275		0.634		0.032		0.904	
LSD (P=.05)	NS		NS		NS		NS		NS		NS		0.390		NS	
STD DEV	209.21		1.61		0.32		0.03		1.30		1.08		0.23		112.90	
CV %	16.77		4.68		7.58		2.11		4.37		1.28		0.42		16.77	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 21. Liberty Link Variety Trial, 2010
Nueces County
Cooperator: Lawhon Farms
Jeff Stapper, County Extension Agent- Agriculture and Natural Resources
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
FM 1845 LLB2	1269	a	39.5	a	5.07	bc	1.21	a	32.67	a	85.17	a	51.98	b	659.70	a
FM 835 LLB2	1223	a	39.0	a	4.80	c	1.20	a	33.43	a	85.27	a	54.18	a	662.70	a
FM 1015 LLB2	1122	b	37.0	b	4.83	c	1.22	a	32.37	a	83.83	b	54.02	a	606.00	b
FM 1035 LLB2	1094	bc	39.6	a	5.56	a	1.11	b	31.44	a	83.30	b	50.52	c	553.00	c
FM 1025 LLB2	1076	bc	38.9	a	4.87	c	1.20	a	31.77	a	84.37	ab	53.32	a	574.00	bc
FM 1773 LLB2	1059	c	37.3	b	5.17	b	1.19	a	32.07	a	83.50	b	51.43	bc	544.00	c
Mean	**1140.4**		**38.56**		**5.05**		**1.19**		**32.29**		**84.24**		**52.58**		**599.89**	
P>F	0.0001		0.0052		0.0014		0.0001		0.2892		0.0316		0.0004		0.0001	
LSD (P=.05)	61.9		1.349		0.282		0.0277		NS		1.323		1.3023		39.32	
STD DEV	34.04		0.742		0.153		0.015		1.01		0.716		.7159		21.61	
CV%	2.99		1.92		3.02		1.26		3.13		0.85		1.36		3.6	

AT =AllTex, DP=DeltaPine, DG=DynaGrow, FM=FiberMax, PHY=Phytogen, ST= Stoneville.

Table 22. Liberty Link Variety Trial, 2010
Burleson County
Cooperator: Texas A&M Research & Extension Center
Dr Gaylon Morgan Cotton Specialist, Assistant Professor and Extension Agronomist
Dale Mott, Extension Program Specialist and Vince Saladino, Technician

Variety	Yield (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lbs)		Lint Value ($/Ac)	
FM 835LLB2	906	a	35.7	a	3.8	a	1.20	a	30.6	a	82.8	a	53.98	a	495	a
BCSX 1015LLB2	929	a	35.1	a	3.9	a	1.23	a	31.0	a	82.0	a	53.90	a	462	a
BCSX 1035LLB2	901	a	36.5	a	4.4	a	1.13	b	31.0	a	82.1	a	53.70	a	449	a
FM 1845LLB2	686	a	35.9	a	4.0	a	1.20	a	30.6	a	83.5	a	53.88	a	442	a
FM 955LLB2	806	a	35.3	a	3.9	a	1.19	a	29.2	a	82.2	a	53.68	a	432	a
FM 1773LLB2	801	a	34.5	a	3.9	a	1.19	a	31.4	a	81.9	a	53.90	a	424	a
BCSX 1025LLB2	760	a	35.8	a	3.8	a	1.22	a	30.6	a	82.3	a	53.90	a	414	a
Mean	**827**		**35.5**		**3.9**		**1.19**		**30.6**		**82.4**		**53.85**		**445**	
P>(F)	0.2046		0.4244		0.0694		0.0116		0.2528		0.5622		0.7246		0.8321	
LSD (P=.05)	210.87		1.945		0.411		0.0464		1.716		1.874		0.4527		124.39	
STD DEV	118.52		1.093		0.231		0.0261		0.965		1.053		0.2545		69.91	
CV %	14.33		3.08		5.87		2.19		3.15		1.28		0.47		15.69	

Table 23. Conventional Cotton Variety Trial, 2010
Matagorda County
Cooperator: Bill and Mike Hansen
Brent Batchelor, County Extension Agent- Agriculture and Natural Resources
Clyde Crumley, Extension Agent-IPM-Matagorda, Wharton, and Jackson Counties
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
AT LA 122	1123	a	40.8	a	4.80	e	1.18	cd	30.57	e	85.03	abc	54.08	a	607.30	a
Tamcot 22	1048	b	39.6	b	4.77	e	1.15	e	29.03	f	83.83	cd	53.72	a	562.70	b
LA 1110035RS	1047	b	36.7	de	5.00	bcd	1.22	b	33.30	cd	85.10	abc	52.72	a-d	551.70	b
FM 1740 B2RF	1021	b	40.8	a	5.13	b	1.15	e	30.87	e	84.90	bc	51.42	de	525.00	bc
AT A102	946	c	38.4	c	4.83	de	1.17	de	30.13	ef	83.90	cd	53.92	a	510.00	cd
LA 1110017	940	c	36.4	e	4.83	de	1.21	b	33.80	bcd	85.83	ab	53.48	ab	502.70	cd
ARK 0102-48	930	cd	37.3	d	5.47	a	1.29	a	36.60	a	86.33	a	50.97	e	474.00	de
SSG 210	917	cd	37.2	de	5.17	b	1.11	f	32.73	d	82.90	d	51.63	de	473.30	de
SSG 212	911	cd	37.0	de	4.93	cde	1.12	f	31.40	e	82.67	d	53.13	abc	484.00	de
ARK 9803-23-04	871	d	39.3	b	5.17	b	1.21	b	34.70	b	85.23	ab	51.63	de	449.70	ef
SSG 22-3-1	795	e	37.1	de	5.13	b	1.20	bc	33.27	cd	84.90	bc	51.95	cde	413.00	f
FM 832	710	f	36.8	de	5.07	bc	1.22	b	34.53	bc	85.90	ab	52.05	b-e	369.70	g
Mean	**938.2**		**38.13**		**5.03**		**1.18**		**32.58**		**84.71**		**52.56**		**493.58**	
P>F	0.0001		0.0001		0.0001		0.0001		0.0001		0.0001		0.0009		0.0001	
LSD (P=.05)	68.6		0.827		0.193		0.0266		1.305		1.308		1.4539		38.07	
STD DEV	40.5		0.488		0.114		0.0157		0.771		0.773		0.8586		22.48	
CV%	4.32		1.28		2.26		1.33		2.37		0.91		1.63		4.56	

Table 24. Conventional Cotton Variety Trial, 2010 – Wharton County

Cooperator: Michael and Lonnie Beard

Peter McGuill, County Extension Agent- Agriculture and Natural Resources,
Clyde Crumley, Extension Agent-IPM-Wharton, Matagorda, and Jackson Counties
Dr. Dan D. Fromme, Assistant Professor and Extension Agronomist

Variety	Lint (lbs/acre)		Turnout %		Micronaire		Length (inches)		Strength (g/tex)		Uniformity		Loan Value (¢/lb)		Lint Value ($/acre)	
ARK 9803-23-04	973	a	40.9	b	4.97	a	1.23	bc	33.40	bc	85.43	ab	52.75	a	513.70	a
LA 1110035RS	878	b	38.7	c	4.77	abc	1.24	ab	33.77	bc	85.03	abc	54.15	a	476.00	b
PHY 375WRF	878	b	41.3	ab	4.50	c	1.13	ef	29.10	ef	84.20	cd	53.60	a	470.30	bc
ARK 0102-48	872	bc	38.8	c	5.00	a	1.27	a	36.27	a	85.90	a	52.02	a	453.30	bcd
AT LA122	868	bcd	42.1	a	4.60	bc	1.15	de	29.77	ef	84.53	bc	53.03	a	460.30	bc
AT A102	812	cde	40.6	b	4.60	bc	1.17	d	30.97	de	84.20	cd	54.02	a	438.70	cde
Tamcot 22	808	de	41.3	ab	4.77	abc	1.15	de	28.67	f	82.13	e	52.63	a	425.70	def
FM 832	798	ef	38.4	cd	5.03	a	1.22	bc	33.90	bc	85.53	ab	53.10	a	424.00	def
SSG 22-3-1	784	ef	37.9	cd	4.83	abc	1.21	c	33.70	bc	84.43	bc	54.12	a	424.00	def
DP Pearl	780	ef	40.8	b	4.53	c	1.17	d	32.13	cd	83.20	de	53.98	a	421.30	def
SSG 212	766	ef	38.4	cd	4.93	ab	1.12	f	30.93	de	83.13	de	52.93	a	405.00	ef
LA 1110017	743	fg	38.2	cd	4.57	c	1.22	bc	34.07	b	85.57	ab	54.22	a	402.70	f
SSG 210	686	g	37.7	d	4.93	ab	1.11	f	30.77	de	82.83	e	52.82	a	362.30	g
Mean	**819.0**		**39.62**		**4.77**		**1.18**		**32.11**		**84.32**		**53.34**		**436.72**	
P>F	0.0001		0.0318		0.0001		0.0001		0.0001		0.0001		0.1426		0.0001	
LSD (P=.05)	60.4		0.908		0.362		0.0318		1.903		1.155		NS		34.24	
STD DEV	35.8		0.539		0.215		0.0189		1.129		0.685		0.965		20.32	
CV%	4.37		1.36		4.5		1.6		3.52		0.81		1.81		4.65	

Issued in furtherance of Cooperative Extension Work in Agriculture and Home Economics, Acts of Congress of May 8, 1914, as amended, and June 30, 1914, in cooperation with the United States Department of Agriculture. Edward G. Smith, Director, Texas AgriLife Extension Service, The Texas A&M University System.