REPLICATED AGRONOMIC COTTON EVALUATION (RACE)
SOUTH, EAST AND CENTRAL REGIONS OF TEXAS, 2010
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ACKNOWLEDGMENTS

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

<table>
<thead>
<tr>
<th>County</th>
<th>Cooperator</th>
<th>Planting Date</th>
<th>Harvest Date</th>
<th>Row Spacing (inches)</th>
<th>Plot Dimensions</th>
<th>Irrigated or Dryland</th>
<th>Area harvested/plot</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameron</td>
<td>James Bauer</td>
<td>Mar 24</td>
<td>Aug 13</td>
<td>40</td>
<td>12 rows x 1485 ft</td>
<td>Irrigated</td>
<td>1.36 acres</td>
</tr>
<tr>
<td>Nueces</td>
<td>TX AgriLife Research Farm</td>
<td>Mar 24</td>
<td>Aug 16</td>
<td>38</td>
<td>2 rows x 35 ft</td>
<td>No</td>
<td>0.005 acres</td>
</tr>
<tr>
<td>Nueces</td>
<td>Jim Massey</td>
<td>Mar 27</td>
<td>Aug 27</td>
<td>30</td>
<td>6 rows x 1520 ft</td>
<td>No</td>
<td>0.52 acres</td>
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<tr>
<td>San Patricio</td>
<td>Robert Rieder</td>
<td>Mar 26</td>
<td>Aug 28</td>
<td>38</td>
<td>6 rows x 650 ft</td>
<td>No</td>
<td>0.28 acres</td>
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<tr>
<td>Refugio</td>
<td>Venture Farms</td>
<td>Apr 7</td>
<td>Sept 2</td>
<td>40</td>
<td>6 rows x 800 ft</td>
<td>No</td>
<td>0.37 acres</td>
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<tr>
<td>Victoria</td>
<td>Justin Leita</td>
<td>Mar 31</td>
<td>Aug 28</td>
<td>38</td>
<td>6 rows x 600 ft</td>
<td>No</td>
<td>0.26 acres</td>
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<tr>
<td>Calhoun</td>
<td>David Hahn</td>
<td>Apr 9</td>
<td>Oct 8</td>
<td>38</td>
<td>6 rows x 1105 ft</td>
<td>No</td>
<td>0.48 acres</td>
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<tr>
<td>DeWitt</td>
<td>Joseph Repondek</td>
<td>May 1</td>
<td>Sept 27</td>
<td>38</td>
<td>4 rows x 1395 ft</td>
<td>No</td>
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<tr>
<td>Jackson</td>
<td>David Sappington</td>
<td>Apr 5</td>
<td>Sept 15</td>
<td>38</td>
<td>6 rows x 1300 ft</td>
<td>Dryland</td>
<td>0.57 acres</td>
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<tr>
<td>Matagorda</td>
<td>Hansen Farms</td>
<td>Apr 9</td>
<td>Sept 14</td>
<td>40</td>
<td>8 rows x 1230 ft</td>
<td>Dryland</td>
<td>0.75 acres</td>
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<tr>
<td>Wharton</td>
<td>Kresta Farms</td>
<td>Apr 10</td>
<td>Oct 6</td>
<td>40</td>
<td>6 rows x 1390 ft</td>
<td>Dryland</td>
<td>0.64 acres</td>
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<tr>
<td>Colorado</td>
<td>Mahalitic Farms</td>
<td>Apr 2</td>
<td>Sept 12</td>
<td>36</td>
<td>8 rows x 900 ft</td>
<td>Irrigated</td>
<td>0.50 acres</td>
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<tr>
<td>Brazos</td>
<td>Higginbottom Farms</td>
<td>May 14</td>
<td>Oct 11</td>
<td>30</td>
<td>8 rows x 1000 ft</td>
<td>Irrigated</td>
<td>0.46 acres</td>
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<tr>
<td>County</td>
<td>Cooperator</td>
<td>Planting Date</td>
<td>Harvest Date</td>
<td>Row Spacing (inches)</td>
<td>Plot Dimensions</td>
<td>Irrigated or Dryland</td>
<td>Area harvested/plot</td>
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<td>--------------------------</td>
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</tr>
<tr>
<td>Williamson</td>
<td>Prinz Farms</td>
<td>Apr 13</td>
<td>Sept 16</td>
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<td>12 rows x 1015 ft</td>
<td>Dryland</td>
<td>0.70 acres</td>
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<tr>
<td>Milam</td>
<td>Beckhusen Farms</td>
<td>Apr 12</td>
<td>Oct 6</td>
<td>30</td>
<td>4 rows x 1108 ft</td>
<td>Dryland</td>
<td>0.25 acres</td>
</tr>
<tr>
<td>Bexar</td>
<td>Ernie Schrimer</td>
<td>Apr 6</td>
<td>Sept 28</td>
<td>36</td>
<td>4 rows x 1700 ft</td>
<td>Irrigated</td>
<td>0.39 acres</td>
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<tr>
<td>Nueces (LLB2)</td>
<td>Lawhon Farms</td>
<td>Mar 26</td>
<td>Aug 17</td>
<td>38</td>
<td>6 rows x 1822 ft</td>
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<td>Burleson (LLB2)</td>
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<td>Sept 21</td>
<td>38</td>
<td>4 rows x 310 ft</td>
<td>Yes</td>
<td>0.05 acres</td>
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<tr>
<td>Matagorda (Conventional)</td>
<td>Hansen Farms</td>
<td>Apr 5</td>
<td>Aug 30</td>
<td>40</td>
<td>8 rows x 489 ft</td>
<td>No</td>
<td>0.30 acres</td>
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<tr>
<td>Wharton (Conventional)</td>
<td>Michael &amp; Lonnie Beard</td>
<td>Apr 3</td>
<td>Aug 26</td>
<td>39</td>
<td>8 rows x 1092 ft</td>
<td>No</td>
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</table>
Table 2. Variety ranking based on lint yield\(^1\), Lower Rio Grande Valley and Coastal Bend Counties, 2010.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Trial</th>
<th>Cameron</th>
<th>EXT CTR</th>
<th>Nueces-2</th>
<th>San Pat</th>
<th>Refugio</th>
<th>Victoria</th>
<th>DeWitt</th>
<th>Calhoun</th>
<th>Mean</th>
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<td>DP 0920 B2RF</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>3</td>
<td>9</td>
<td>2</td>
<td>2.75</td>
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<td>FM 1740 B2RF</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>6</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>5</td>
<td>3.38</td>
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<td>ST 5458 B2RF</td>
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<td>3</td>
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<td>4</td>
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<td>4</td>
<td></td>
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<td>PHY 367 WRF</td>
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<td>3</td>
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<td>5</td>
<td>7</td>
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<td></td>
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<td>4.00</td>
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<td>8</td>
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<td>4</td>
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<td>AT APEX B2RF</td>
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<td>9</td>
<td>9</td>
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<td>5</td>
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<tr>
<td>FM 9170 B2RF</td>
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<td>7</td>
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<td></td>
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\(^1\) Ranking is performed only on varieties that were planted at a minimum of 5 locations.
Table 3. Variety ranking based on lint yield¹, Upper Gulf Coast Counties and Wintergarden, 2010.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Trial</th>
<th>Trial</th>
<th>Trial</th>
<th>Trial</th>
<th>Trial</th>
<th>Mean</th>
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<tr>
<td></td>
<td>Jackson</td>
<td>Matagorda</td>
<td>Wharton</td>
<td>Colorado</td>
<td>Brazos</td>
<td>Bexar</td>
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<td>DP 0920 B2RF</td>
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<td>4</td>
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<td>2</td>
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<td>DP 1048 B2RF</td>
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<td>3</td>
<td>7</td>
<td>7</td>
<td>9</td>
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<tr>
<td>CG 3220 B2RF</td>
<td>7</td>
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<td>7</td>
<td>6</td>
<td>4</td>
<td>4</td>
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<tr>
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<td>4</td>
<td>8</td>
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<td>9</td>
<td>10</td>
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¹ Ranking is performed only on varieties that were planted at a minimum of 4 locations.
Table 4. Variety ranking based on lint yield¹, Southern Blacklands, 2010.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Trial</th>
<th>Williamson</th>
<th>Milam</th>
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<tbody>
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<tr>
<td>CG 3220 B2RF</td>
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<td>3</td>
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<tr>
<td>DP 1032 B2RF</td>
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<td>2</td>
<td></td>
</tr>
<tr>
<td>PHY 375 WRF</td>
<td>4</td>
<td>4</td>
<td></td>
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<tr>
<td>ST 5327 B2RF</td>
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<td>7</td>
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<td>PHY 565 B2RF</td>
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<tr>
<td>DG 2570 B2RF</td>
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<td>6</td>
<td></td>
</tr>
<tr>
<td>FM 9170 B2RF</td>
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<tr>
<td>FM 1740 B2RF</td>
<td>10</td>
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<td></td>
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<tr>
<td>ST 4498 B2RF</td>
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<tr>
<td>DP 1048 B2RF</td>
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<tr>
<td>AT 65207 B2RF</td>
<td>9</td>
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</table>
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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM 1740 B2RF</td>
<td>1164</td>
<td>a</td>
<td>44.0 bc</td>
<td>4.93 b</td>
<td>1.11 bcd</td>
<td>29.17 abc</td>
<td>83.73 b</td>
<td>52.73 bc 614.00 a</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>1123</td>
<td>a</td>
<td>44.8 b</td>
<td>5.33 a</td>
<td>1.08 d</td>
<td>27.00 e</td>
<td>82.60 d</td>
<td>49.80 d 560.30 abc</td>
</tr>
<tr>
<td>PHY 367 WRF</td>
<td>1104 ab</td>
<td>43.3 cd</td>
<td>4.70 c</td>
<td>1.12 ab</td>
<td>29.27 ab</td>
<td>83.43 bc</td>
<td>53.45 ab</td>
<td>590.00 ab</td>
</tr>
<tr>
<td>CG 3220 B2RF</td>
<td>1053 abc</td>
<td>43.4 cd</td>
<td>4.93 b</td>
<td>1.09 cd</td>
<td>27.87 cde</td>
<td>83.37 bc</td>
<td>52.23 c</td>
<td>550.00 bc</td>
</tr>
<tr>
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<td>1009 bc</td>
<td>46.6 a</td>
<td>4.70 c</td>
<td>1.12 b</td>
<td>28.17 b-e</td>
<td>82.93 cd</td>
<td>53.28 abc</td>
<td>537.30 bc</td>
</tr>
<tr>
<td>FM 9160 B2RF</td>
<td>1005 bc</td>
<td>41.9 e</td>
<td>4.50 d</td>
<td>1.15 a</td>
<td>30.00 a</td>
<td>85.43 a</td>
<td>54.08 a</td>
<td>543.30 bc</td>
</tr>
<tr>
<td>AT Apex B2RF</td>
<td>981 c</td>
<td>42.8 d</td>
<td>4.70 c</td>
<td>1.11 bc</td>
<td>27.77 de</td>
<td>83.30 bcd</td>
<td>53.32 abc</td>
<td>523.00 c</td>
</tr>
<tr>
<td>PHY 375 WRF</td>
<td>960 c</td>
<td>43.7 cd</td>
<td>4.67 cd</td>
<td>1.09 d</td>
<td>28.53 bcd</td>
<td>83.70 b</td>
<td>52.87 bc</td>
<td>507.30 c</td>
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<tr>
<td>Mean</td>
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<td>43.81</td>
<td>4.81</td>
<td>1.11</td>
<td>28.47</td>
<td>83.56</td>
<td>52.72</td>
<td>553.17</td>
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P>F 0.0138 0.0001 0.0001 0.0001 0.0001 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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM 1740 B2RF</td>
<td>1429 a</td>
<td>43.2 bc</td>
<td>5.23 c</td>
<td>1.10 bcd</td>
<td>29.10 a</td>
<td>83.15 a</td>
<td>53.62 a</td>
<td>721.50 a</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>1354 ab</td>
<td>44.2 ab</td>
<td>5.55 ab</td>
<td>1.11 abc</td>
<td>27.83 a</td>
<td>83.00 a</td>
<td>53.62 a</td>
<td>677.50 ab</td>
</tr>
<tr>
<td>PHY 367 WRF</td>
<td>1321 bc</td>
<td>44.2 ab</td>
<td>5.15 cd</td>
<td>1.09 cd</td>
<td>28.83 a</td>
<td>82.45 a</td>
<td>53.62 a</td>
<td>666.30 ab</td>
</tr>
<tr>
<td>PHY 375 WRF</td>
<td>1284 bcd</td>
<td>44.4 ab</td>
<td>5.2 cd</td>
<td>1.06 d</td>
<td>27.08 a</td>
<td>82.05 a</td>
<td>53.60 a</td>
<td>632.50 bcd</td>
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<tr>
<td>DP 1032 B2RF</td>
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<td>5.18 cd</td>
<td>1.15 a</td>
<td>30.30 a</td>
<td>83.20 a</td>
<td>53.65 a</td>
<td>654.80 bc</td>
</tr>
<tr>
<td>ST 5458 B2RF</td>
<td>1228 cde</td>
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<td>5.63 a</td>
<td>1.09 cd</td>
<td>28.68 a</td>
<td>81.70 a</td>
<td>53.61 a</td>
<td>606.50 cd</td>
</tr>
<tr>
<td>FM 9160 B2RF</td>
<td>1227 cde</td>
<td>42.2 cd</td>
<td>5.05 de</td>
<td>1.11 abc</td>
<td>27.58 a</td>
<td>83.55 a</td>
<td>53.60 a</td>
<td>627.30 bcd</td>
</tr>
<tr>
<td>CG 3220 B2RF</td>
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<td>43.5 bc</td>
<td>5.23 c</td>
<td>1.08 cd</td>
<td>27.70 a</td>
<td>83.23 a</td>
<td>53.61 a</td>
<td>594.30 d</td>
</tr>
<tr>
<td>ST 4288 B2RF</td>
<td>1182 ef</td>
<td>41.8 d</td>
<td>5.43 b</td>
<td>1.11 abc</td>
<td>27.95 a</td>
<td>82.78 a</td>
<td>53.59 a</td>
<td>591.00 d</td>
</tr>
<tr>
<td>AT Apex B2RF</td>
<td>1108 f</td>
<td>41.4 d</td>
<td>4.98 e</td>
<td>1.14 ab</td>
<td>28.00 a</td>
<td>83.20 a</td>
<td>53.59 a</td>
<td>580.50 d</td>
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**Mean** 1260.7 43.33 5.26 1.1 28.3 82.83 53.61 635.20

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<th>0.0001</th>
<th>0.0001</th>
<th>0.0062</th>
<th>0.0719</th>
<th>0.085</th>
<th>1.0000</th>
<th>0.0003</th>
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<td>0.0416</td>
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<td>NS</td>
<td>NS</td>
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<td>1.306</td>
<td>0.84</td>
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<td>2.19</td>
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<td>1.01</td>
<td>0.0</td>
<td>6.01</td>
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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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM 1740 B2RF</td>
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<td>4.77 bc</td>
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<td>29.57 bc</td>
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<td>53.70 a</td>
</tr>
<tr>
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<td>1403</td>
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<td>39.6 b</td>
<td>5.13 a</td>
<td>1.12 de</td>
<td>27.83 d</td>
<td>82.60 a</td>
<td>51.18 c</td>
</tr>
<tr>
<td>ST 5458 B2RF</td>
<td>1315</td>
<td>b</td>
<td>37.9 ef</td>
<td>5.10 a</td>
<td>1.13 cd</td>
<td>29.93 ab</td>
<td>83.03 a</td>
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<tr>
<td>PHY 367 WRF</td>
<td>1280</td>
<td>bc</td>
<td>38.7 cd</td>
<td>4.60 d</td>
<td>1.16 abc</td>
<td>30.87 a</td>
<td>83.53 a</td>
<td>53.87 a</td>
</tr>
<tr>
<td>ST 4288 B2RF</td>
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<td>bcd</td>
<td>36.0 g</td>
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<td>1.16 ab</td>
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<td>83.80 a</td>
<td>52.92 ab</td>
</tr>
<tr>
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<td>cde</td>
<td>38.9 bc</td>
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<td>1.10 e</td>
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<td>82.70 a</td>
<td>53.20 ab</td>
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<td>29.13 bc</td>
<td>82.77 a</td>
<td>53.50 a</td>
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<td>28.70 bcd</td>
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<td>53.55 a</td>
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<td>1.17 a</td>
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<td>53.60 a</td>
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<th>670.90</th>
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<td>0.096</td>
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<td>0.644</td>
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<td>0.8</td>
<td>1.21</td>
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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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
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<td>ab</td>
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<td>1549</td>
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<td>41.8</td>
<td>c</td>
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<td>bc</td>
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<td>a</td>
<td>43.8</td>
<td>a</td>
<td>4.63</td>
<td>e</td>
<td>1.20</td>
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</tr>
<tr>
<td>PHY 375 WRF</td>
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<td>a</td>
<td>43.4</td>
<td>a</td>
<td>4.80</td>
<td>cde</td>
<td>1.14</td>
<td>bc</td>
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<td>PHY 367 WRF</td>
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<td>ab</td>
<td>4.83</td>
<td>cde</td>
<td>1.14</td>
<td>c</td>
</tr>
<tr>
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<td>bc</td>
<td>4.87</td>
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<td>1.15</td>
<td>bc</td>
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<tr>
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<td>39.7</td>
<td>e</td>
<td>4.90</td>
<td>bcd</td>
<td>1.17</td>
<td>ab</td>
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<tr>
<td>CG 3220 B2RF</td>
<td>1429</td>
<td>a</td>
<td>41.9</td>
<td>bc</td>
<td>5.03</td>
<td>bc</td>
<td>1.14</td>
<td>bc</td>
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<td>de</td>
<td>1.17</td>
<td>ab</td>
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<td>de</td>
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<td>f</td>
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<td>a</td>
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<td>42.11</td>
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<td>1.16</td>
<td>30.2</td>
<td>83.73</td>
<td>53.03</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP 0920 B2RF</td>
<td>1251</td>
<td>a</td>
<td>43.1</td>
<td>5.23</td>
<td>1.13</td>
<td>bc</td>
<td>29.00</td>
<td>cd</td>
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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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
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| Mean        | 1200.1         | 41.4      | 4.88       | 1.19           | 32.2            | 84.89      | 52.98            | 634.70           |

P>F  
LSD (P=.05)  
STD DEV  
CV%  

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

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<th>Length (inches)</th>
<th>Strength (g/tex)</th>
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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

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<th>Length (inches)</th>
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<td>28.20 e</td>
<td>82.67</td>
<td>53.45</td>
<td>668.30</td>
</tr>
<tr>
<td>FM 9170 B2RF</td>
<td>1091</td>
<td>39.4 ab</td>
<td>4.07</td>
<td>1.22 a</td>
<td>31.23 a</td>
<td>84.13</td>
<td>54.23</td>
<td>591.70</td>
</tr>
<tr>
<td>Mean</td>
<td>1348.5</td>
<td>38.89</td>
<td>4.41</td>
<td>1.17</td>
<td>29.67</td>
<td>83.29</td>
<td>53.77</td>
<td>725.20</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 375 WRF</td>
<td>1654</td>
<td>a</td>
<td>44.3</td>
<td>4.5</td>
<td>bcd</td>
<td>1.17</td>
<td>de</td>
<td>29.7</td>
</tr>
<tr>
<td>FM 1740 B2RF</td>
<td>1395 bc</td>
<td>c</td>
<td>42.3</td>
<td>4.6</td>
<td>bc</td>
<td>1.17</td>
<td>de</td>
<td>30.9</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>1464 ab</td>
<td>a</td>
<td>44.8</td>
<td>5.1</td>
<td>a</td>
<td>1.16</td>
<td>e</td>
<td>29.1</td>
</tr>
<tr>
<td>ST 5458 B2RF</td>
<td>1361 bc</td>
<td>c</td>
<td>42.2</td>
<td>5.0</td>
<td>a</td>
<td>1.19</td>
<td>cd</td>
<td>30.6</td>
</tr>
<tr>
<td>PHY 565 WRF</td>
<td>1277 bc</td>
<td>cd</td>
<td>41.3</td>
<td>4.5</td>
<td>bcd</td>
<td>1.21</td>
<td>abc</td>
<td>32.9</td>
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<td>bc</td>
<td>42.7</td>
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<td>bcd</td>
<td>1.20</td>
<td>abc</td>
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<td>DP 09R-555</td>
<td>1271 bc</td>
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<td>ab</td>
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<td>bc</td>
<td>1.15</td>
<td>e</td>
<td>29.8</td>
</tr>
<tr>
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<td>1209 cd</td>
<td>c</td>
<td>41.8</td>
<td>4.5</td>
<td>bcd</td>
<td>1.22</td>
<td>ab</td>
<td>28.9</td>
</tr>
<tr>
<td>ST 4288 B2RF</td>
<td>1031 d</td>
<td>d</td>
<td>40.4</td>
<td>4.3</td>
<td>d</td>
<td>1.23</td>
<td>a</td>
<td>30.5</td>
</tr>
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<td>30.5</td>
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<td>P&gt;(F)</td>
<td>0.002</td>
<td>0.000</td>
<td>0.000</td>
<td>0.0001</td>
<td>0.001</td>
<td>0.601</td>
<td>0.0001</td>
<td>0.001</td>
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<td>LSD (P=.05)</td>
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<td>0.025</td>
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<td>NS</td>
<td>0.367</td>
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<tr>
<td>STD DEV</td>
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<td>0.88</td>
<td>0.12</td>
<td>0.01</td>
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<td>0.21</td>
<td>69.92</td>
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<tr>
<td>CV %</td>
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<td>2.06</td>
<td>2.53</td>
<td>1.23</td>
<td>2.98</td>
<td>1.42</td>
<td>0.40</td>
<td>9.87</td>
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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 Cruemple, Extension Agent – IPM

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DP 0935 B2RF</td>
<td>1263</td>
<td>a</td>
<td>46.1</td>
<td>ab</td>
<td>4.7 c</td>
<td>1.16 fg</td>
<td>30.3 def</td>
<td>84.6 a</td>
</tr>
<tr>
<td>DP 1048 B2RF</td>
<td>1209</td>
<td>ab</td>
<td>46.4</td>
<td>ab</td>
<td>4.4 d</td>
<td>1.21 bcd</td>
<td>29.9 ef</td>
<td>84.7 a</td>
</tr>
<tr>
<td>PHY 565 WRF</td>
<td>1144</td>
<td>bcd</td>
<td>45.5</td>
<td>bc</td>
<td>4.4 d</td>
<td>1.21 bcd</td>
<td>32.1 abc</td>
<td>85.2 a</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>1165</td>
<td>bc</td>
<td>47.2</td>
<td>a</td>
<td>4.9 b</td>
<td>1.15 g</td>
<td>29.4 f</td>
<td>84.6 a</td>
</tr>
<tr>
<td>ST 4288 B2RF</td>
<td>1083</td>
<td>def</td>
<td>42.7</td>
<td>e</td>
<td>4.8 bc</td>
<td>1.23 b</td>
<td>31.3 b-e</td>
<td>84.9 a</td>
</tr>
<tr>
<td>PHY 375 WRF</td>
<td>1082</td>
<td>def</td>
<td>45.1</td>
<td>bcd</td>
<td>4.4 d</td>
<td>1.17 efg</td>
<td>30.6 c-f</td>
<td>85.4 a</td>
</tr>
<tr>
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<td>1111</td>
<td>cde</td>
<td>46.5</td>
<td>ab</td>
<td>5.2 a</td>
<td>1.20 bcd</td>
<td>31.8 a-d</td>
<td>85.4 a</td>
</tr>
<tr>
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<td>fg</td>
<td>44.5</td>
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<td>33.1 a</td>
<td>86.1 a</td>
</tr>
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<td>CG 3220 B2RF</td>
<td>1046</td>
<td>efg</td>
<td>45.1</td>
<td>bcd</td>
<td>4.7 c</td>
<td>1.14 g</td>
<td>29.8 ef</td>
<td>84.1 a</td>
</tr>
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<td>1025</td>
<td>fg</td>
<td>43.8</td>
<td>de</td>
<td>4.4 d</td>
<td>1.20 cde</td>
<td>30.6 c-f</td>
<td>85.1 a</td>
</tr>
<tr>
<td>FM 1740 B2RF</td>
<td>988</td>
<td>g</td>
<td>46.5</td>
<td>ab</td>
<td>4.9 b</td>
<td>1.19 def</td>
<td>32.6 ab</td>
<td>85.0 a</td>
</tr>
<tr>
<td>FM 9170 B2RF</td>
<td>830</td>
<td>h</td>
<td>43.6</td>
<td>de</td>
<td>4.3 d</td>
<td>1.23 bc</td>
<td>32.7 ab</td>
<td>85.4 a</td>
</tr>
<tr>
<td>Mean</td>
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<td>4.6</td>
<td>1.20 bc</td>
<td>31.2 ab</td>
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<td>53.80 a</td>
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<td>0.0001</td>
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<td>0.0001</td>
<td>0.0001</td>
<td>0.6087</td>
<td>0.0001</td>
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<tr>
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<td>1.55</td>
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<td>STD DEV</td>
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<td>0.91</td>
<td>0.098</td>
<td>0.0204</td>
<td>0.882</td>
<td>0.989</td>
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<td>CV %</td>
<td>3.91</td>
<td></td>
<td>2.02</td>
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<td>1.7</td>
<td>2.83</td>
<td>1.16</td>
<td>0.8</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 375 WRF</td>
<td>957</td>
<td>a</td>
<td>40.1</td>
<td>4.6</td>
<td>de</td>
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<td>d</td>
<td>27.5</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>933</td>
<td>ab</td>
<td>38.6</td>
<td>4.9</td>
<td>b</td>
<td>1.10</td>
<td>d</td>
<td>26.7</td>
</tr>
<tr>
<td>PHY 565 WRF</td>
<td>913</td>
<td>abc</td>
<td>37.6</td>
<td>4.7</td>
<td>d</td>
<td>1.16</td>
<td>a</td>
<td>30.4</td>
</tr>
<tr>
<td>DP 1048 B2RF</td>
<td>885</td>
<td>abc</td>
<td>38.5</td>
<td>4.5</td>
<td>ef</td>
<td>1.16</td>
<td>a</td>
<td>27.5</td>
</tr>
<tr>
<td>ST 5458 B2RF</td>
<td>899</td>
<td>abc</td>
<td>39.8</td>
<td>5.1</td>
<td>a</td>
<td>1.12</td>
<td>c</td>
<td>27.6</td>
</tr>
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<td>bc</td>
<td>39.5</td>
<td>4.8</td>
<td>bc</td>
<td>1.12</td>
<td>c</td>
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<td>cd</td>
<td>1.09</td>
<td>d</td>
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<tr>
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<td>c</td>
<td>27.8</td>
</tr>
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<td>b</td>
<td>29.4</td>
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<td>1.14</td>
<td>bc</td>
<td>28.6</td>
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<tr>
<td><strong>Mean</strong></td>
<td><strong>863</strong></td>
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<td><strong>37.7</strong></td>
<td><strong>4.7</strong></td>
<td></td>
<td><strong>1.13</strong></td>
<td></td>
<td><strong>28.1</strong></td>
</tr>
</tbody>
</table>

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: Mahalitic Farms**  
**Kara Matheney, County Extension Agent**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value ($/lbs)</th>
<th>Loan Value ($/lbs)</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1255</td>
<td>a</td>
<td>41.6</td>
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<tr>
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<td>42.6</td>
<td>ab</td>
<td>4.4</td>
<td>de</td>
<td>1.22</td>
<td>abc</td>
</tr>
<tr>
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<td>1080</td>
<td>bc</td>
<td>38.7</td>
<td>c</td>
<td>4.8</td>
<td>b</td>
<td>1.22</td>
<td>ab</td>
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<td>42.0</td>
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<td>4.7</td>
<td>bc</td>
<td>1.15</td>
<td>e</td>
</tr>
<tr>
<td>DP 0920 B2RF</td>
<td>1031</td>
<td>bc</td>
<td>44.4</td>
<td>a</td>
<td>4.7</td>
<td>bc</td>
<td>1.16</td>
<td>e</td>
</tr>
<tr>
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<td>1013</td>
<td>c</td>
<td>41.5</td>
<td>b</td>
<td>4.6</td>
<td>cd</td>
<td>1.16</td>
<td>de</td>
</tr>
<tr>
<td>PHY 565 WRF</td>
<td>899</td>
<td>d</td>
<td>41.7</td>
<td>b</td>
<td>4.4</td>
<td>e</td>
<td>1.23</td>
<td>a</td>
</tr>
<tr>
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<td>880</td>
<td>d</td>
<td>41.7</td>
<td>b</td>
<td>4.7</td>
<td>bc</td>
<td>1.19</td>
<td>cd</td>
</tr>
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<td>42.5</td>
<td>ab</td>
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<td>1.17</td>
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<td>FM 9170 B2RF</td>
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<td>bc</td>
<td>4.4</td>
<td>e</td>
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<td>bc</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
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<td></td>
<td><strong>41.7</strong></td>
<td><strong>4.6</strong></td>
<td><strong>1.19</strong></td>
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<td><strong>30.7</strong></td>
<td><strong>85.0</strong></td>
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<td>P&gt;(F)</td>
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<td>2.12</td>
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</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
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</thead>
<tbody>
<tr>
<td>FM 1740 B2RF</td>
<td>1853 a</td>
<td>44.6 bc</td>
<td>4.4 bcd</td>
<td>1.15 a-d</td>
<td>30.4 bcd</td>
<td>84.4 a</td>
<td>53.98 a</td>
<td>1001 a</td>
</tr>
<tr>
<td>DP 1028 B2RF</td>
<td>1832 ab</td>
<td>47.3 a</td>
<td>4.6 a</td>
<td>1.16 abc</td>
<td>29.9 b-e</td>
<td>84.9 a</td>
<td>53.95 a</td>
<td>989 ab</td>
</tr>
<tr>
<td>ST 5458 B2RF</td>
<td>1783 ab</td>
<td>43.7 cde</td>
<td>4.5 ab</td>
<td>1.17 ab</td>
<td>30.6 bcd</td>
<td>84.1 a</td>
<td>54.02 a</td>
<td>963 ab</td>
</tr>
<tr>
<td>PHY 375 B2RF</td>
<td>1780 ab</td>
<td>44.6 bc</td>
<td>4.1 f</td>
<td>1.15 a-e</td>
<td>28.9 cde</td>
<td>83.7 a</td>
<td>53.75 a</td>
<td>956 ab</td>
</tr>
<tr>
<td>CG 3220 B2RF</td>
<td>1698 abc</td>
<td>42.9 de</td>
<td>4.1 ef</td>
<td>1.16 abc</td>
<td>29.5 b-e</td>
<td>83.9 a</td>
<td>53.90 a</td>
<td>915 abc</td>
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<tr>
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<td>1688 a-d</td>
<td>43.5 cde</td>
<td>4.2 def</td>
<td>1.11 e</td>
<td>31.2 b</td>
<td>84.1 a</td>
<td>53.90 a</td>
<td>910 abc</td>
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<td>FM 9160 B2RF</td>
<td>1686 a-d</td>
<td>43.6 cde</td>
<td>4.1 f</td>
<td>1.17 abc</td>
<td>29.1 cde</td>
<td>83.1 a</td>
<td>53.77 a</td>
<td>907 bc</td>
</tr>
<tr>
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<td>1678 bcd</td>
<td>45.8 b</td>
<td>4.5 abc</td>
<td>1.16 abc</td>
<td>28.3 e</td>
<td>83.4 a</td>
<td>53.52 a</td>
<td>898 bcd</td>
</tr>
<tr>
<td>AT 65207 B2RF</td>
<td>1539 cde</td>
<td>42.7 e</td>
<td>4.3 cde</td>
<td>1.14 b-e</td>
<td>30.1 b-e</td>
<td>84.2 a</td>
<td>53.90 a</td>
<td>830 cd</td>
</tr>
<tr>
<td>PHY 565 B2RF</td>
<td>1524 de</td>
<td>44.3 cd</td>
<td>4.2 ef</td>
<td>1.18 a</td>
<td>34.3 a</td>
<td>85.0 a</td>
<td>54.25 a</td>
<td>827 cd</td>
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<td>43.9 cde</td>
<td>4.5 abc</td>
<td>1.13 cde</td>
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<td>810 d</td>
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<td><strong>30.3</strong></td>
<td><strong>84.1</strong></td>
<td><strong>53.90</strong></td>
<td><strong>910</strong></td>
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<td>P&gt;(F)</td>
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<td>0.0001</td>
<td>0.0001</td>
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<td>0.0002</td>
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<td>0.187</td>
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<td>NS</td>
<td>NS</td>
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<td>0.111</td>
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<td>2.56</td>
<td>2.04</td>
<td>3.76</td>
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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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 565 B2RF</td>
<td>1028</td>
<td>a</td>
<td>43.9</td>
<td>3.9</td>
<td>1.11</td>
<td>b</td>
<td>29.5</td>
<td>83.5</td>
</tr>
<tr>
<td>ST 5327 B2RF</td>
<td>1017</td>
<td>a</td>
<td>44.3</td>
<td>3.9</td>
<td>1.11</td>
<td>ab</td>
<td>28.2</td>
<td>83.4</td>
</tr>
<tr>
<td>CG 3220 B2RF</td>
<td>991</td>
<td>a</td>
<td>43.4</td>
<td>3.9</td>
<td>1.08</td>
<td>bc</td>
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<td>83.1</td>
</tr>
<tr>
<td>PHY 375 B2RF</td>
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<td>1.10</td>
<td>bc</td>
<td>27.1</td>
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<td>a</td>
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<td>1.09</td>
<td>bc</td>
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<td>bc</td>
<td>26.5</td>
<td>81.6</td>
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<td>44.1</td>
<td>3.5</td>
<td>1.15</td>
<td>a</td>
<td>28.2</td>
<td>82.0</td>
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<td>c</td>
<td>28.8</td>
<td>82.8</td>
</tr>
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<td>FM 1740 B2RF</td>
<td>891</td>
<td>a</td>
<td>41.8</td>
<td>3.9</td>
<td>1.11</td>
<td>b</td>
<td>27.7</td>
<td>83.0</td>
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<td>a</td>
<td>43.5</td>
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<td>bc</td>
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<td>82.8</td>
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<td>43.7</td>
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<td><strong>43.1</strong></td>
<td><strong>3.9</strong></td>
<td><strong>1.10</strong></td>
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<td><strong>28.0</strong></td>
<td><strong>82.8</strong></td>
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<tr>
<td>P&gt;(F)</td>
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<td>0.230</td>
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<td>6.06</td>
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<td></td>
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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**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
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<td>42.6</td>
<td>ab</td>
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<td>a</td>
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<td>1082</td>
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<td>c-f</td>
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<td>a</td>
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<td>80.0</td>
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<td>a</td>
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<td>bcd</td>
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<td>bc-d</td>
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<td>a</td>
<td>26.1</td>
<td>81.9</td>
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<tr>
<td>DG 2570 B2RF</td>
<td>1021</td>
<td>a-d</td>
<td>40.0</td>
<td>def</td>
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<td>a</td>
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<td>82.2</td>
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<td>996</td>
<td>bcd</td>
<td>43.5</td>
<td>a</td>
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<td>a</td>
<td>24.7</td>
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<td>b-e</td>
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<td>24.5</td>
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<td><strong>80.8</strong></td>
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<td>0.802</td>
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<td>4.75</td>
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<td>3.61</td>
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</table>

AT = AllTex, DP = DeltaPine, DG = DynaGrow, FM = FiberMax, PHY = Phytogen, ST = Stoneville.
<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
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</thead>
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<td>4.1</td>
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<td>30.6</td>
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<td><strong>29.7</strong></td>
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<td><strong>53.91 ab</strong></td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
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<td>1.20 a</td>
<td>31.77 a</td>
<td>84.37 ab</td>
<td>53.32 a</td>
<td>574.00 bc</td>
</tr>
<tr>
<td>FM 1773 LLB2</td>
<td>1059 c</td>
<td>37.3 b</td>
<td>5.17 b</td>
<td>1.19 a</td>
<td>32.07 a</td>
<td>83.50 b</td>
<td>51.43 bc</td>
<td>544.00 c</td>
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<th></th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
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<tbody>
<tr>
<td><strong>Mean</strong></td>
<td>1140.4</td>
<td>38.56</td>
<td>5.05</td>
<td>1.19</td>
<td>32.29</td>
<td>84.24</td>
<td>52.58</td>
<td>599.89</td>
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- 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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lbs)</th>
<th>Lint Value ($/Ac)</th>
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<tbody>
<tr>
<td>FM 835LLB2</td>
<td>906</td>
<td>a</td>
<td>35.7</td>
<td>a</td>
<td>3.8</td>
<td>a</td>
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<td>a</td>
</tr>
<tr>
<td>BCSX 1015LLB2</td>
<td>929</td>
<td>a</td>
<td>35.1</td>
<td>a</td>
<td>3.9</td>
<td>a</td>
<td>1.23</td>
<td>a</td>
</tr>
<tr>
<td>BCSX 1035LLB2</td>
<td>901</td>
<td>a</td>
<td>36.5</td>
<td>a</td>
<td>4.4</td>
<td>a</td>
<td>1.13</td>
<td>b</td>
</tr>
<tr>
<td>FM 1845LLB2</td>
<td>686</td>
<td>a</td>
<td>35.9</td>
<td>a</td>
<td>4.0</td>
<td>a</td>
<td>1.20</td>
<td>a</td>
</tr>
<tr>
<td>FM 955LLB2</td>
<td>806</td>
<td>a</td>
<td>35.3</td>
<td>a</td>
<td>3.9</td>
<td>a</td>
<td>1.19</td>
<td>a</td>
</tr>
<tr>
<td>FM 1773LLB2</td>
<td>801</td>
<td>a</td>
<td>34.5</td>
<td>a</td>
<td>3.9</td>
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<td>760</td>
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<td>a</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
<td><strong>827</strong></td>
<td><strong>35.5</strong></td>
<td><strong>3.9</strong></td>
<td><strong>1.19</strong></td>
<td><strong>30.6</strong></td>
<td><strong>82.4</strong></td>
<td><strong>53.85</strong></td>
<td><strong>445</strong></td>
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<td><strong>P&gt;(F)</strong></td>
<td>0.2046</td>
<td>0.4244</td>
<td>0.0694</td>
<td>0.0116</td>
<td>0.2528</td>
<td>0.5622</td>
<td>0.7246</td>
<td>0.8321</td>
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<td><strong>LSD (P=.05)</strong></td>
<td>210.87</td>
<td>1.945</td>
<td>0.411</td>
<td>0.0464</td>
<td>1.716</td>
<td>1.874</td>
<td>0.4527</td>
<td>124.39</td>
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<td>118.52</td>
<td>1.093</td>
<td>0.231</td>
<td>0.0261</td>
<td>0.965</td>
<td>1.053</td>
<td>0.2545</td>
<td>69.91</td>
</tr>
<tr>
<td><strong>CV %</strong></td>
<td>14.33</td>
<td>3.08</td>
<td>5.87</td>
<td>2.19</td>
<td>3.15</td>
<td>1.28</td>
<td>0.47</td>
<td>15.69</td>
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</tbody>
</table>
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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire (e)</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT LA 122</td>
<td>1123 a</td>
<td>40.8 a</td>
<td>4.80 e</td>
<td>1.18 cd</td>
<td>30.57 e</td>
<td>85.03 abc</td>
<td>54.08 a</td>
<td>607.30 a</td>
</tr>
<tr>
<td>Tamcot 22</td>
<td>1048 b</td>
<td>39.6 b</td>
<td>4.77 e</td>
<td>1.15 e</td>
<td>29.03 f</td>
<td>83.83 cd</td>
<td>53.72 a</td>
<td>562.70 b</td>
</tr>
<tr>
<td>LA 1110035RS</td>
<td>1047 b</td>
<td>36.7 de</td>
<td>5.00 bcd</td>
<td>1.22 b</td>
<td>33.30 cd</td>
<td>85.10 abc</td>
<td>52.72 a-d</td>
<td>551.70 b</td>
</tr>
<tr>
<td>FM 1740 B2RF</td>
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<td>5.13 b</td>
<td>1.15 e</td>
<td>30.87 e</td>
<td>84.90 bc</td>
<td>51.42 de</td>
<td>525.00 bc</td>
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<tr>
<td>AT A102</td>
<td>946 c</td>
<td>38.4 c</td>
<td>4.83 de</td>
<td>1.17 de</td>
<td>30.13 ef</td>
<td>83.90 cd</td>
<td>53.48 ab</td>
<td>510.00 cd</td>
</tr>
<tr>
<td>LA 1110017</td>
<td>940 c</td>
<td>36.4 e</td>
<td>4.83 de</td>
<td>1.21 b</td>
<td>33.80 bcd</td>
<td>85.83 ab</td>
<td>53.48 ab</td>
<td>502.70 cd</td>
</tr>
<tr>
<td>ARK 0102-48</td>
<td>930 cd</td>
<td>37.3 d</td>
<td>5.47 a</td>
<td>1.29 a</td>
<td>36.60 a</td>
<td>86.33 a</td>
<td>50.97 e</td>
<td>474.00 de</td>
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<tr>
<td>SSG 210</td>
<td>917 cd</td>
<td>37.2 de</td>
<td>5.17 b</td>
<td>1.11 f</td>
<td>32.73 d</td>
<td>82.90 d</td>
<td>51.63 de</td>
<td>473.30 de</td>
</tr>
<tr>
<td>SSG 212</td>
<td>911 cd</td>
<td>37.0 de</td>
<td>4.93 cde</td>
<td>1.12 f</td>
<td>31.40 e</td>
<td>82.67 d</td>
<td>53.13 abc</td>
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<tr>
<td>ARK 9803-23-04</td>
<td>871 d</td>
<td>39.3 b</td>
<td>5.17 b</td>
<td>1.21 b</td>
<td>34.70 b</td>
<td>85.23 ab</td>
<td>51.63 de</td>
<td>449.70 ef</td>
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<td>SSG 22-3-1</td>
<td>795 e</td>
<td>37.1 de</td>
<td>5.13 b</td>
<td>1.20 bc</td>
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<td>84.90 bc</td>
<td>51.95 cde</td>
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<td>710 f</td>
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<td>5.07 bc</td>
<td>1.22 b</td>
<td>34.53 bc</td>
<td>85.90 ab</td>
<td>52.05 b-e</td>
<td>369.70 g</td>
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</table>

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

<table>
<thead>
<tr>
<th>Variety</th>
<th>Lint (lbs/acre)</th>
<th>Turnout %</th>
<th>Micronaire</th>
<th>Length (inches)</th>
<th>Strength (g/tex)</th>
<th>Uniformity</th>
<th>Loan Value (¢/lb)</th>
<th>Lint Value ($/acre)</th>
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<tbody>
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<td>85.43</td>
</tr>
<tr>
<td>LA 1110035RS</td>
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<td>38.7</td>
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<td>cde</td>
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<td>1.17</td>
<td>d</td>
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<td>84.20</td>
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<tr>
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<td>808</td>
<td>de</td>
<td>41.3</td>
<td>4.77</td>
<td>1.15</td>
<td>de</td>
<td>28.67</td>
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</tr>
<tr>
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<td>ef</td>
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<td>d</td>
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<td>84.32</td>
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<td>0.0001</td>
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<td>1.129</td>
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<td>1.81</td>
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