PERFORMANCE OF SOYBEANS IN ALABAMA, 2020

DEPT. SERIES NO. CSES2020: SOYBEAN HENRY G. JORDAN JR., VARIETY TESTING MANAGER CROP, SOIL & ENVIRONMENTAL SCIENCES AUBURN UNIVERSITY, AUBURN AL JANUARY 13, 2021

MISSION

The mission of the Alabama Variety Testing Program is to provide research-based, unbiased results on the performance of various crop hybrids, cultivars, and varieties to the agricultural community in our state. We are intent on conducting these trials in a manner that will result in maximum biological yield through methods common to the top-producing farms in Alabama. We are committed to providing this information in a rapid, timely manner for its use during the decision-making process. The success of the program rests upon our ability to help Alabama producers provide a safe, dependable source of food and fiber for all families as well as economic sustainability for theirs.

HOW TO INTERPRET RESULTS

The purpose of the variety trial data is to determine whether differences are due to genetic performance. These differences cannot be measured absolutely due to environmental field conditions (rainfall, temperatures, soil fertility, soil type, disease, insects, etc.). Yields may differ between plots of the same entry. This variation is accounted for using experimental design and statistics.

The least significant difference (LSD) is used to determine whether the observed differences between entries are real or are caused by random variation. When using the LSD, two entries may have numerically different values, but the values are not statistically different. When two entries are compared and the observed difference is larger than the LSD, the entries are considered statistically different. An alpha level of 0.10 is used, meaning that the differences observed are expected to be real 90% of the time.

The coefficient of variation (CV) is a measure used to compare the amount of random variation within a data set. The lower the CV, the more precise the data set.

Each table is organized in a manner that it is easy to read. The data is sorted from highest yielding to lowest. The bolded values are not statistically different from the highest yielding value.

A dark line in the table visually represents the test average. Any value above the line is equal to or greater than the test average. The numeric value for the test average is at the bottom of the tables.

Test results do not imply endorsement or recommendation by the Auburn University Variety Testing Program.
ACKNOWLEDGEMENT

DR. PAUL PATTERSON, DEAN AND DIRECTOR
ALABAMA AGRICULTURAL EXPERIMENT STATION

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ASSOCIATE DIRECTOR, ALABAMA AGRICULTURAL EXPERIMENT STATION

GREG PATE, DIRECTOR OF RESEARCH OPERATIONS FOR OUTLYING UNITS
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CROP, SOIL & ENVIRONMENTAL SCIENCES

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SAVANNA DURAN
JOSEPH BURCH
JAMES BURCH
JODIE SPIVEY
ISAAC EVANS
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RATING DEFINITIONS

MANAGEMENT

SEED SOURCES

PERFORMANCE OF SOYBEANS IN ALABAMA
“LAST YEAR’S DATA”

SOUTH REGION
BREWTON AGRICULTURAL RESEARCH UNIT
BREWTON, AL
Malcomb Pegues, Director
Brad Miller, Associate Director

WEBSITE
Test by Maturity Group:
IV  V  VI  VII-VIII

GULF COAST RESEARCH AND EXTENSION CENTER
FAIRHOPE, AL
Malcomb Pegues, Director
Jarrod Jones, Associate Director

WEBSITE
Test by Maturity Group:
IV  V  VI  VII-VIII
CENTRAL REGION

E.V. SMITH RESEARCH AND EXTENSION CENTER
PLANT BREEDING UNIT, SHORTER, AL

Jason Burkett, Associate Director

WEBSITE

Test by Maturity Group:
Early-IV

E.V. SMITH RESEARCH AND EXTENSION CENTER
FIELD CROPS UNIT, SHORTER, AL

Shawn Scott, Associate Director

WEBSITE

Test by Maturity Group:
IV  V  VI  VII-VIII

BLACK BELT RESEARCH AND EXTENSION CENTER
MARION JUNCTION, AL

Jamie Yeager, Director

WEBSITE

Test by Maturity Group:
Sumter Soil:  IV  V  VI  VII-VIII
Vaiden Soil:  IV  V  VI  VII-VIII
NORTH REGION

TENNESSEE VALLEY RESEARCH AND EXTENSION CENTER
BELLE MINA, AL

Chet Norris, Director
David Harkins, Associate Director

WEBSITE
Test by Maturity Group:
Early-IV  IV  V-VI

SAND MOUNTAIN RESEARCH AND EXTENSION CENTER
CROSSVILLE, AL

Chet Norris, Interim Director
Clint McElmoyl, Associate Director

WEBSITE
Test by Maturity Group:
Early-IV  IV  V-VI
RATING DEFINITIONS

Maturity is the date when approximately 95% of the pods are ripe. Delayed leaf drop and green stems are not considered in assigning maturity.

### TABLE 1 – LODGING, SHATTERING, AND QUALITY DEFINITIONS

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<th>Score (1-5)</th>
<th>Lodging</th>
<th>Shattering</th>
<th>Seed Quality</th>
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<td>Almost all plants erect</td>
<td>No shattering</td>
<td>Very Good</td>
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<td>2</td>
<td>All plants leaning slightly or a few plants down</td>
<td>1-10% shattered</td>
<td>Good</td>
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<td>3</td>
<td>All plants leaning moderately (45%), or 25-50% of plants down</td>
<td>10-25% shattered</td>
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<td>All plants leaning considerably, or 50-80% of plants down</td>
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<td>5</td>
<td>Almost all plants down</td>
<td>Over 50% shattered</td>
<td>Very Poor</td>
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MANAGEMENT

Moisture is recorded at the time of harvest and yields are standardized to 13.0% moisture for head to head comparison.

### TABLE 2 - LOCATION SPECIFIC MANAGEMENT

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<tr>
<th>Research Center</th>
<th>Tennessee Valley</th>
<th>Sand Mountain</th>
<th>E.V. Smith PBU</th>
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<td>Crossville</td>
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<td>May 11</td>
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<td>MG 4 – May 6</td>
<td>MG 5 – June 1</td>
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<td>MG 4 – Oct 15</td>
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### TABLE 3 – SEED SOURCE, VARIETY NAME, AND REGIONS TESTED

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### TABLE 4 – LOCATION SPECIFIC DATA

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<th>Height inches</th>
<th>Lodging (1-5)</th>
<th>Seed per Pound</th>
<th>Seed Quality</th>
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</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
### Table 5 – Location Specific Data

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Lodging (1-5)</th>
<th>Seed per Pound</th>
<th>Seed Quality</th>
</tr>
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</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.  
**Bolded line** in table indicates test average.  
**N.S.** – differences are statistically non-significant.
# Table 6 – Location Specific Data

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Seed per Pound</th>
<th>Seed Quality</th>
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Average: 66.5, 28, 2865, 2

LSD @ 10% level: 5.4, 3, 186, 0.3

CV: 14, 8, 11, 16

**Bolded yields** are NOT statistically different from the highest yielding entry.
**Bolded line in table** indicates test average.
**N.S.** – differences are statistically non-significant.
# TABLE 7 – LOCATION SPECIFIC DATA

<table>
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<th>Variety</th>
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<th>Seed Quality</th>
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**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
The Gulf Coast Research and Extension Center received damaging wind and rain from Hurricane Sally in mid-September. Due to the extent of the damage, soybean data from this location is not available.

**Table 8 – Location Specific Data**

<table>
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<tr>
<th>All Maturities</th>
<th>IV, V, VI, VII-VIII</th>
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**Bolded yields** are NOT statistically different from the highest yielding entry. **Bolded line** in table indicates test average. **N.S.** –differences are statistically non-significant.
The Early Planted Maturity Group IV trial at the E.V. Smith Plant Breeding Unit was uniformly exposed to two herbicides, glyphosate and dicamba. Most of the entries in the trial were Extend soybeans and were not sensitive to the herbicides. However, there were twelve varieties that did not have resistance to one or both herbicides. Each exhibited visual symptoms of herbicide injury. One variety was damaged severely enough that its data was omitted. The eleven remaining varieties yielded much better than anticipated, some were even statistically equal to the top yielding variety. It is unknown whether the injury observed significantly reduced yield in the eleven remaining varieties. Therefore, they are included in this table and identified with the type of herbicide(s) in which they are sensitive.

**TABLE 9 – LOCATION SPECIFIC DATA**

<table>
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<th>Variety</th>
<th>Yield bushes per acre</th>
<th>Height inches</th>
<th>% Maturity @ Desiccation</th>
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<td>Dicamba + Glyphosate</td>
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<td>CV</td>
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<td>15</td>
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</tbody>
</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.  
**Bolded line** in table indicates test average.  
**N.S.** – differences are statistically non-significant.
# TABLE 10 – LOCATION SPECIFIC DATA

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Lodging (1-5)</th>
<th>Maturity Day-Month</th>
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<tbody>
<tr>
<td>Go Soy GT Ireane</td>
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<td>27-Sep</td>
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<td>1.0</td>
<td>26-Sep</td>
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<td>30-Sep</td>
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<td>29-Sep</td>
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<td>29-Sep</td>
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<td>29-Sep</td>
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<tr>
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<td>1.3</td>
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<tr>
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<td>1.5</td>
<td>23-Sep</td>
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<td>1.0</td>
<td>4-Oct</td>
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<tr>
<td>S15-3772RY</td>
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<td>1</td>
<td>28-Sep</td>
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<td>4 days</td>
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<tr>
<td><strong>CV</strong></td>
<td>15</td>
<td>8</td>
<td>33</td>
<td>2</td>
</tr>
</tbody>
</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.  
**Bolded line** in table indicates test average.  
**N.S.** –differences are statistically non-significant.
### TABLE 11 – LOCATION SPECIFIC DATA

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Shatter (1-5)</th>
<th>Maturity Day-Month</th>
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</thead>
<tbody>
<tr>
<td>LS5797X</td>
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<td>1.0</td>
<td>16-Oct</td>
</tr>
<tr>
<td>CZ 5859LL</td>
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</tr>
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<td>SS6XT99</td>
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<td>1.0</td>
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<td>7-Oct</td>
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<td>5-Oct</td>
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<td>1.0</td>
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<td>1.0</td>
<td>13-Oct</td>
</tr>
<tr>
<td>S16-11651C</td>
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<td>1.3</td>
<td>7-Oct</td>
</tr>
<tr>
<td>LS5009XS</td>
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<td>1.0</td>
<td>8-Oct</td>
</tr>
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<td>8-Oct</td>
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<td>1.0</td>
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<td>S16-15170C</td>
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<td>1.0</td>
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<td><strong>2</strong></td>
<td><strong>0.3</strong></td>
<td><strong>2 days</strong></td>
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<td><strong>CV</strong></td>
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<td><strong>10</strong></td>
<td><strong>32</strong></td>
<td><strong>1</strong></td>
</tr>
</tbody>
</table>

*Bolded yields* are NOT statistically different from the highest yielding entry.

*Bolded line* in table indicates test average.

*N.S.* – differences are statistically non-significant.
**TABLE 12 – LOCATION SPECIFIC DATA**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Maturity Day-Month</th>
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<td>22-Oct</td>
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<tr>
<td>CZ 6730LL</td>
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<td>26-Oct</td>
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<td>CZ 6770X</td>
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<td>24-Oct</td>
</tr>
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<td>22-Oct</td>
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<td>Go Soy 60G19</td>
<td>26</td>
<td>25</td>
<td>14-Oct</td>
</tr>
</tbody>
</table>

| Average      | 46                     | 26            | 22-Oct             |
| LSD @ 10% Level | 5                     | 2             | 4 days             |
| CV           | 23                     | 8             | 2                  |

**Bolded yields** are NOT statistically different from the highest yielding entry. **Bolded line** in table indicates test average. **N.S.** – differences are statistically non-significant.
### TABLE 13 – LOCATION SPECIFIC DATA

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
<th>Height inches</th>
<th>Maturity Day-Month</th>
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<tbody>
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<td>LS7099X</td>
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<td>LS7305X</td>
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<td>2-Nov</td>
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<tr>
<td>CZ 7380X</td>
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<td>32</td>
<td>2-Nov</td>
</tr>
<tr>
<td>CZ 7570</td>
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<td>4-Nov</td>
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<tr>
<td>CZ 7007LL</td>
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<td>34</td>
<td>31-Oct</td>
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<td>32</td>
<td>2-Nov</td>
</tr>
<tr>
<td>LSD @ 10% Level</td>
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<td>N.S.</td>
<td>1 day</td>
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<tr>
<td>CV</td>
<td>15</td>
<td>7</td>
<td>0.4</td>
</tr>
</tbody>
</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

**TABLE 14 – LOCATION SPECIFIC DATA**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Iron Chlorosis (1-9)</th>
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</thead>
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<td>Go Soy 48C17S</td>
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<td>Go Soy 463E205</td>
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<td>Go Soy GT Ireane</td>
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<td>S16-7922C</td>
<td>3.6</td>
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<td>S16-11644C</td>
<td>3.1</td>
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<tr>
<td>ZS4694E3S</td>
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<tr>
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<tr>
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<td><strong>N.S.</strong></td>
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<td><strong>CV</strong></td>
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</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

**TABLE 15 – LOCATION SPECIFIC DATA**

<table>
<thead>
<tr>
<th>Variety</th>
<th>Iron Chlorosis (1-9)</th>
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</thead>
<tbody>
<tr>
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<td>4.4</td>
</tr>
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<td>4.1</td>
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<td>S16-3747RY</td>
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<td>3.8</td>
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<td>S51-R3XS</td>
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<tr>
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<td><strong>N.S.</strong></td>
</tr>
<tr>
<td><strong>CV</strong></td>
<td><strong>25</strong></td>
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</tbody>
</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

### TABLE 16 – LOCATION SPECIFIC DATA

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<tr>
<th>Variety</th>
<th>Iron Chlorosis (1-9)</th>
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<tr>
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**Bolded yields** are NOT statistically different from the highest yielding entry.
**Bolded line** in table indicates test average.
**N.S.** – differences are statistically non-significant.

[Table of Contents]
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

### TABLE 17 – LOCATION SPECIFIC DATA

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<td><strong>LSD @ 10% level</strong></td>
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<td><strong>CV</strong></td>
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**Bolded yields** are NOT statistically different from the highest yielding entry. **Bolded line** in table indicates test average. N.S. – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

**TABLE 18 – LOCATION SPECIFIC DATA**

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**Bolded yields** are NOT statistically different from the highest yielding entry. **Bolded line** in table indicates test average. **N.S.** – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

**TABLE 19 – LOCATION SPECIFIC DATA**

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**Bolded yields** are NOT statistically different from the highest yielding entry.  
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N.S. – differences are statistically non-significant.
Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

**TABLE 20 – LOCATION SPECIFIC DATA**

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Soybeans at the Black Belt Research and Extension Center displayed uneven maturity within a plot as well as uneven maturity on individual plants, which caused a delay in harvest. This coupled with the onset of frequent fall rain events further delayed harvest. As a result, shattering increased and seed quality declined, ultimately making the Black Belt soybean trials not harvestable.

### Table 21 – Location Specific Data

<table>
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**Bolded yields** are NOT statistically different from the highest yielding entry. **Bolded line** in table indicates test average. **N.S.**—differences are statistically non-significant.
TABLE 22 – LOCATION SPECIFIC DATA

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<th>Yield bushels per acre</th>
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<th>Seed Quality</th>
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</table>

Average: 21, 35, 16-Sep, ., 3591, 3.3
LSD @ 10% Level: 5, 4, 5 days, ., 548, 0.9
CV: 31, 10, 4, ., 16, 28

**Bolded yields** are NOT statistically different from the highest yielding entry.
**Bolded line** in table indicates test average.
**N.S.** – differences are statistically non-significant.
### TABLE 23 – LOCATION SPECIFIC DATA

<table>
<thead>
<tr>
<th>Variety</th>
<th>Yield bushels per acre</th>
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<th>Lodging (1-5)</th>
<th>Maturity Day-Month</th>
<th>Seed per Pound</th>
<th>Seed Quality</th>
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**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.
### TABLE 24 – LOCATION SPECIFIC DATA

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<th>Variety</th>
<th>Yield bushels per acre</th>
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<th>Seed per Pound</th>
<th>Seed Quality</th>
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**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** –differences are statistically non-significant.
### EARLY-PLANTED MATURITY GROUP IV
SAND MOUNTAIN RESEARCH AND EXTENSION CENTER
CROSSVILLE, AL

#### TABLE 25 - LOCATION SPECIFIC DATA

<table>
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<tr>
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**Bolded yields** are NOT statistically different from the highest yielding entry.  
**Bolded line** in table indicates test average.  
**N.S.** –differences are statistically non-significant.
### TABLE 26 - LOCATION SPECIFIC DATA

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<th>Variety</th>
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**Bolded yields** are NOT statistically different from the highest yielding entry.

**Bolded line** in table indicates test average.

**N.S.** – differences are statistically non-significant.
### TABLE 27 - LOCATION SPECIFIC DATA

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</table>

**Bolded yields** are NOT statistically different from the highest yielding entry.  
**Bolded line** in table indicates test average.  
**N.S.** – differences are statistically non-significant.
CONTACT

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