

*Performance
of Soybean
Varieties in
Alabama,
2009*

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PERFORMANCE OF SOYBEAN VARIETIES IN ALABAMA, 2009

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INTRODUCTION

Soybean variety tests are conducted annually by the Alabama Agricultural Experiment Station. The 7 locations used represent the major soil and climatic regions of Alabama. These locations are divided into logical soybean growing regions. The regions and locations are:

| Region | Location |
|------------|---------------------------|
| Northern | Belle Mina, Crossville |
| Central | Tallassee, Shorter |
| Southern | Brewton |
| Black Belt | Marion Junction (2 soils) |
| Gulf Coast | Fairhope |

EXPERIMENTAL PROCEDURES

The standard tests were conducted as a randomized complete block design with four replications. Standard plot size was four 30- to 38-inch rows by 20 feet long. Fifteen feet of the middle two rows were harvested for yield. Seeding rate was 10 viable seeds per foot of row. The Group IV test was drilled with seven 7-inch rows. Seeding rate was five viable seeds per foot of row.

Data were collected on seed yield, moisture, lodging, shattering, plant height, and maturity date. Plot yields were adjusted to 13 percent moisture and converted to bushels (60 pounds) per acre. Lodging was scored on a scale of 1 to 5 as follows:

- 1 - almost all plants erect.
- 2 - either all plants leaning slightly (less than 45%) or a few plants down.
- 3 - either all plants leaning moderately (approximately 45%) or 25 to 50 percent of the plants down.
- 4 - either all plants leaning more than 45% or 50 to 80 percent of the plants down.
- 5 - more than 80 percent of the plants down.

Shattering was rated on a scale of 1 to 5 based on performance of the border rows 14 days after maturity. A rating of 1 indicates no shattering, a rating of 3 indicates a 4 to 8 percent shattering, and a rating of 5 is 20 percent or more shattering. Plant height was determined by measuring from the ground to the top of the plant at maturity. Maturity date was the day 95 percent of the pods achieved mature pod color. Harvest was approximately 7 to 10 days later.

SEASONAL CONDITIONS

Rainfall for 2009 is shown in Table 20. The normal planting dates for the standard tests are the first week in May, May 15-25, and May 25 to June 5 for northern, central, and southern Alabama locations, respectively.

COMPARING VARIETIES

To aid in determining real yield differences, a statistical analysis of variance was performed on the data from each location. The L.S.D. (least significant difference) and C.V. (coefficient of variation) are reported for each location's 2009 test, and for the location's or region's 2- and 3-year averages. The difference in yield of two varieties must exceed the L.S.D. value for one variety to be considered superior to others in yield in that particular test. The C.V. is a measure of the variability in an experiment. An increase in its value indicates an increase in the unexplained variability.

Since the performance of varieties varies with location and year, long-term averages from several locations are more reliable than 1-year performance. Three-year regional averages are considered a reliable evaluation of the relative performance of varieties. However varietal rankings may change among years and among locations. This change in rankings is measured by the significance of variety x location, variety x year, variety x location*year interaction. These interactions were significant in all cases. Thus, care should be exercised when extrapolating results from one location or year to another.

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TABLE 1. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2009.

| Variety | Belle Mina | Cross ville | Regional Average | | | | Plant height | Maturity date |
|--------------------------------|---------------|----------------|------------------|------------------|---------------------|----|-----------------|------------------|
| | | | Yield | Lodging score | Shattering score | | | |
| ----- <i>bu/acre</i> ----- | | | | | | | - inches - | |
| Maturity Group III | | | | | | | | |
| Dyna Gro 31J39 | 34.1 | 69.5 | 51.8 | 1.1 | 2.4 | 24 | 9-10 | |
| Maturity Group IV | | | | | | | | |
| SS LL 499N | 70.1 | 92.2 | 81.1 | 1.1 | 1.5 | 33 | 9-22 | |
| USG 74G99 | 68.5 | 91.7 | 80.1 | 1.4 | 1.3 | 35 | 9-22 | |
| Terral TV 47R18 | 48.2 | 101.7 | 75.0 | 1.9 | 2.1 | 30 | 9-11 | |
| Schillinger 4990.RC | 53.2 | 94.4 | 73.8 | 1.4 | 1.1 | 28 | 9-14 | |
| Croplan Genetics RC 4998RR | 61.6 | 85.6 | 73.6 | 1.4 | 1.8 | 29 | 9-21 | |
| Terral TV 49R19 | 61.0 | 84.9 | 72.9 | 1.5 | 1.1 | 32 | 9-13 | |
| Terral TV 49R17 | 54.1 | 90.9 | 72.3 | 1.6 | 1.5 | 35 | 9-14 | |
| Croplan Genetics RC 4757RR/STS | 47.5 | 94.1 | 70.8 | 1.1 | 1.4 | 23 | 9-13 | |
| UA 4805 | 63.5 | 77.2 | 70.3 | 1.1 | 1.1 | 27 | 9-19 | |
| Dyna-Gro 35Z49 | 53.0 | 87.4 | 70.2 | 1.5 | 1.8 | 30 | 9-15 | |
| Schillinger 495.RC | 48.5 | 91.2 | 69.8 | 1.8 | 2.0 | 29 | 9-14 | |
| Dyna-Gro 39C49 | 55.5 | 83.7 | 69.6 | 1.5 | 1.5 | 30 | 9-16 | |
| USG 74T98 | 55.6 | 80.3 | 67.9 | 1.0 | 1.4 | 29 | 9-19 | |
| Dyna-Gro 33Y45 | 45.6 | 88.5 | 67.2 | 1.4 | 2.1 | 24 | 9-9 | |
| Croplan Genetics RC 4955RR | 51.0 | 83.0 | 67.0 | 1.6 | 2.0 | 33 | 9-20 | |
| Dyna-Gro V49N6RR | 50.1 | 82.7 | 66.4 | 1.4 | 1.6 | 28 | 9-12 | |
| Dyna-Gro 32R46 | 40.8 | 90.9 | 66.1 | 1.0 | 2.1 | 23 | 9-10 | |
| Dyna-Gro V48N7RS | 41.6 | 88.8 | 65.2 | 1.0 | 1.5 | 21 | 9-10 | |
| SS RT 4996N | 46.4 | 83.9 | 65.1 | 1.5 | 1.8 | 26 | 9-21 | |
| Dyna-Gro 37P49 | 47.1 | 82.3 | 64.7 | 1.5 | 1.3 | 27 | 9-16 | |
| MorSoy RTs 4955N | 44.8 | 84.5 | 64.7 | 1.6 | 1.6 | 26 | 9-22 | |
| Croplan Genetics RC 4417RR | 38.6 | 90.3 | 64.4 | 1.5 | 2.1 | 26 | 9-11 | |
| USG 74D79 | 41.3 | 87.2 | 64.2 | 1.3 | 1.8 | 24 | 9-19 | |
| Asgrow AG 4907 | 48.9 | 79.1 | 64.0 | 1.0 | 1.6 | 27 | 9-15 | |
| Schillinger 499.RC | 42.5 | 84.1 | 63.3 | 1.8 | 1.8 | 27 | 9-22 | |
| Dyna-Gro 36Y48 | 47.6 | 78.2 | 62.9 | 1.6 | 1.9 | 26 | 9-19 | |
| Asgrow AG 4403 | 40.0 | 84.7 | 62.3 | 1.0 | 1.9 | 26 | 9-10 | |
| SS RT 4451N | 39.6 | 81.4 | 60.5 | 1.9 | 2.1 | 27 | 9-10 | |
| Croplan Genetics RC 4877RR | 36.0 | 84.1 | 60.0 | 1.3 | 1.8 | 26 | 9-13 | |
| Asgrow AG 4606 | 39.1 | 77.2 | 58.1 | 1.3 | 1.9 | 25 | 9-11 | |

continued

TABLE 1. CONTINUED.

| Variety | Belle Mina | Cross ville | Regional Average | | | | Plant height | Maturity date |
|-----------------------------|---------------|----------------|----------------------------|------------------|---------------------|------|-----------------|------------------|
| | | | Yield | Lodging score | Shattering score | | | |
| | | | ----- <i>bu/acre</i> ----- | | - <i>inches</i> - | | | |
| Maturity Group IV continued | | | | | | | | |
| SS RT 4808N | 37.1 | 78.2 | 57.6 | 1.4 | 1.8 | 24 | 9-15 | |
| SS RT 4370N | 32.6 | 81.1 | 56.9 | 1.5 | 2.4 | 25 | 9-11 | |
| SS RT 4777N | 27.3 | 84.0 | 55.7 | 1.4 | 2.3 | 27 | 9-13 | |
| Dyna-Gro 32P48 | 35.6 | 71.3 | 53.5 | 1.4 | 1.9 | 25 | 9-13 | |
| Dyna-Gro V47N9RS | 33.0 | 67.2 | 50.1 | 1.1 | 2.3 | 23 | 9-11 | |
| Asgrow AG 4005 | 25.3 | 72.9 | 49.1 | 1.0 | 1.9 | 22 | 9-13 | |
| Dyna-Gro 36C44 | 32.9 | 61.6 | 47.1 | 1.1 | 2.4 | 20 | 9-10 | |
| Maturity Group V | | | | | | | | |
| SS RT 5160N | 65.8 | 93.4 | 79.6 | 1.4 | 1.7 | 30 | 9-25 | |
| Trial mean | 46.3 | 83.7 | 65.0 | 1.4 | 1.8 | 27.1 | 9-15 | |
| LSD(0.10) | 10.6 | 13.8 | 8.7 | | | | | |
| CV (%) | 21.7 | 15.7 | 17.9 | | | | | |

TABLE 2. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN NORTH ALABAMA, THREE-YEAR SUMMARY, 2007 - 2009.

| Variety | Yield | | | Averages | | | |
|--------------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group III | | | | | | | |
| Dyna Gro 31J39 | 51.8 | | | 1.1 | 2.4 | 24.1 | 9-10 |
| Maturity Group IV | | | | | | | |
| UA 4805 | 70.3 | 50.8 | 40.4 | 1.0 | 1.0 | 23.5 | 9-17 |
| Schillinger 495.RC | 69.8 | 47.7 | 37.8 | 1.3 | 2.2 | 26.6 | 9-12 |
| Croplan Genetics RC 4955RR | 67.0 | 48.8 | 37.2 | 1.2 | 1.6 | 28.2 | 9-17 |
| Croplan Genetics RC 4757RR/STS | 70.8 | 47.2 | 37.1 | 1.0 | 1.4 | 21.3 | 9-8 |
| SS RT 4451N | 60.5 | 41.8 | 35.3 | 1.3 | 2.2 | 24.9 | 9-5 |
| SS RT 4996N | 65.1 | 45.1 | 35.0 | 1.2 | 2.1 | 24.5 | 9-13 |
| SS RT 4808N | 57.6 | 40.2 | 31.4 | 1.1 | 2.2 | 23.6 | 9-10 |
| Croplan Genetics RC 4998RR | 73.6 | 52.0 | | 1.2 | 2.1 | 27.8 | 9-23 |
| Dyna-Gro 32R46 | 66.1 | 44.2 | | 1.0 | 2.1 | 22.3 | 9-13 |
| Croplan Genetics RC 4417RR | 64.4 | 43.3 | | 1.3 | 2.2 | 24.9 | 9-13 |
| Croplan Genetics RC 4877RR | 60.0 | 41.7 | | 1.1 | 1.9 | 24.9 | 9-16 |
| Dyna-Gro 32P48 | 53.5 | 39.4 | | 1.2 | 2.0 | 23.8 | 9-16 |
| SS RT 4370N | 56.9 | 39.4 | | 1.3 | 2.4 | 24.3 | 9-14 |
| SS RT 4777N | 55.7 | 39.3 | | 1.2 | 2.3 | 26.0 | 9-11 |
| SS LL 499N | 81.1 | | | 1.1 | 1.5 | 32.8 | 9-22 |
| USG 74G99 | 80.1 | | | 1.4 | 1.3 | 35.0 | 9-22 |
| Terral TV 47R18 | 75.0 | | | 1.9 | 2.1 | 29.9 | 9-11 |
| Schillinger 4990.RC | 73.8 | | | 1.4 | 1.1 | 27.9 | 9-14 |
| Terral TV 49R19 | 72.9 | | | 1.5 | 1.1 | 32.0 | 9-13 |
| Terral TV 49R17 | 72.3 | | | 1.6 | 1.5 | 35.3 | 9-14 |
| Dyna-Gro 35Z49 | 70.2 | | | 1.3 | 1.6 | 29.9 | 9-8 |
| Dyna-Gro 39C49 | 69.6 | | | 1.5 | 1.5 | 30.5 | 9-16 |

continued

TABLE 2. CONTINUED.

| Variety | Yield | | | Averages | | | |
|-----------------------------|----------------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- <i>bu/acre</i> ----- | | | | | - <i>inch</i> - | |
| Maturity Group IV continued | | | | | | | |
| USG 74T98 | 67.9 | | | 1.0 | 1.4 | 29.0 | 9-19 |
| Dyna-Gro 33Y45 | 67.2 | | | 1.4 | 2.1 | 23.8 | 9-9 |
| Dyna-Gro V49N6RR | 66.4 | | | 1.4 | 1.6 | 27.6 | 9-12 |
| Dyna-Gro V48N7RS | 65.2 | | | 1.0 | 1.5 | 21.4 | 9-10 |
| Dyna-Gro 37P49 | 64.7 | | | 1.3 | 1.8 | 25.7 | 9-9 |
| MorSoy RTs 4955N | 64.7 | | | 1.6 | 1.6 | 26.1 | 9-22 |
| USG 74D79 | 64.2 | | | 1.3 | 1.8 | 24.4 | 9-19 |
| Asgrow AG 4907 | 64.0 | | | 1.0 | 1.6 | 26.8 | 9-15 |
| Schillinger 499.RC | 63.3 | | | 1.8 | 1.8 | 27.5 | 9-22 |
| Dyna-Gro 36Y48 | 62.9 | | | 1.3 | 1.9 | 26.0 | 9-8 |
| Asgrow AG 4403 | 62.3 | | | 1.0 | 1.9 | 25.9 | 9-10 |
| Asgrow AG 4606 | 58.1 | | | 1.3 | 1.9 | 25.3 | 9-11 |
| Dyna-Gro V47N9RS | 50.1 | | | 1.1 | 2.3 | 22.8 | 9-11 |
| Asgrow AG 4005 | 49.1 | | | 1.0 | 1.9 | 22.0 | 9-13 |
| Dyna-Gro 36C44 | 47.1 | | | 1.1 | 2.4 | 20.4 | 9-10 |
| Maturity Group V | | | | | | | |
| SS RT 5160N | 79.6 | 57.2 | 43.5 | 1.1 | 1.3 | 27.7 | 9-22 |
| Trial mean | 65.0 | 45.2 | 37.2 | 1.2 | 1.8 | 26.3 | 9-14 |
| LSD(0.10) | 8.7 | 3.8 | 2.6 | | | | |
| CV (%) | 17.9 | 15.9 | 16.3 | | | | |

TABLE 3. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN TALLASSEE, ALABAMA, 2009

TABLE 4. PERFORMANCE OF GROUP IV SOYBEAN VARIETIES IN TALLASSEE, ALABAMA, THREE-YEAR SUMMARY, 2007 - 2009

The 2009 Group IV test at Tallassee was planted but could not be harvested due to prolonged autumn rains.

TABLE 5. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2009.

| Variety | Belle Mina | Cross ville | Regional Average | | | | Maturity date |
|----------------------------|---------------|----------------|------------------|------------------|---------------------|-----------------|------------------|
| | | | Yield | Lodging score | Shattering score | Plant height | |
| ----- bu/acre ----- | | | - inches - | | | | |
| Maturity Group IV | | | | | | | |
| HALO 4:94 | 61.5 | 93.2 | 77.4 | 1.5 | 1.1 | 41 | 10-6 |
| Progeny P 4906RR | 54.8 | 87.7 | 71.2 | 1.9 | 1.5 | 39 | 9-29 |
| Progeny P 4908RR | 59.7 | 81.6 | 70.6 | 1.8 | 1.4 | 39 | 9-30 |
| Progeny P 4807RR | 59.0 | 77.9 | 68.4 | 1.8 | 1.5 | 41 | 7-29 |
| NK S 49-H7 Brand | 49.4 | 82.1 | 65.7 | 1.8 | 1.7 | 40 | 10-3 |
| HALO 4:65 | 42.2 | 87.1 | 64.7 | 1.5 | 1.5 | 38 | 7-26 |
| Progeny P 4949RR | 50.6 | 71.1 | 60.9 | 2.6 | 1.8 | 41 | 10-4 |
| Maturity Group V | | | | | | | |
| USG 75M49 | 62.1 | 80.2 | 71.2 | 2.2 | 1.3 | 36 | 10-8 |
| Progeny P 5409RR | 56.3 | 85.0 | 70.6 | 2.1 | 1.5 | 43 | 10-5 |
| MorSoy RT 5388N | 59.6 | 81.3 | 70.5 | 1.4 | 1.1 | 38 | 10-11 |
| Asgrow AG 5503 | 57.5 | 81.6 | 69.5 | 1.9 | 1.4 | 39 | 10-4 |
| SS LL 511N | 63.7 | 75.1 | 69.4 | 2.3 | 1.1 | 33 | 10-11 |
| Croplan Genetics RC 5007RR | 61.7 | 74.5 | 68.1 | 1.9 | 1.3 | 40 | 10-11 |
| HALO 5:65 | 64.0 | 72.1 | 68.1 | 1.6 | 1.3 | 39 | 10-14 |
| Terral TV 54R28 | 64.7 | 71.0 | 67.9 | 2.6 | 1.1 | 41 | 10-8 |
| Croplan Genetics RC 5222RR | 55.7 | 79.6 | 67.7 | 2.1 | 1.3 | 41 | 10-10 |
| Asgrow AG 5405 | 63.6 | 71.6 | 67.6 | 2.4 | 1.1 | 36 | 10-10 |
| HALO 5:25 | 63.6 | 70.4 | 67.0 | 2.2 | 1.4 | 32 | 10-12 |
| Schillinger 5440R | 59.3 | 74.6 | 67.0 | 1.9 | 1.1 | 34 | 10-10 |
| MorSoy RT 5168 | 57.5 | 74.7 | 66.1 | 2.3 | 1.1 | 37 | 10-4 |
| Schillinger 557RC | 59.6 | 70.9 | 65.2 | 1.9 | 1.1 | 38 | 10-14 |
| Ozark | 56.9 | 72.5 | 64.7 | 2.2 | 1.4 | 38 | 10-10 |
| USG 75Z98 | 62.5 | 66.7 | 64.6 | 2.1 | 1.4 | 36 | 10-16 |
| AGS 597RR | 63.2 | 65.2 | 64.2 | 2.4 | 1.4 | 39 | 10-19 |
| Osage | 61.4 | 66.8 | 64.1 | 1.8 | 1.3 | 35 | 10-12 |
| USG 7553nRS | 59.3 | 67.3 | 63.3 | 1.5 | 1.3 | 39 | 10-17 |
| Dyna-Gro 32A53 | 53.0 | 73.0 | 63.0 | 3.3 | 1.5 | 39 | 10-9 |
| Progeny P 5622RR | 58.6 | 66.8 | 62.7 | 2.2 | 1.1 | 39 | 10-16 |

continued

TABLE 5. CONTINUED.

| Variety | Belle Mina | Cross ville | Regional Average | | | | Maturity date |
|----------------------------|---------------|----------------|---------------------|------------------|---------------------|-----------------|------------------|
| | | | Yield | Lodging score | Shattering score | Plant height | |
| | | | ----- bu/acre ----- | | - inches - | | |
| Maturity Group V continued | | | | | | | |
| SS LL 595N | 62.1 | 63.0 | 62.5 | 1.8 | 1.4 | 39 | 10-14 |
| Asgrow AG 5606 | 63.6 | 61.5 | 62.5 | 2.8 | 1.5 | 41 | 10-17 |
| USG Allen | 61.6 | 62.9 | 62.2 | 1.5 | 1.3 | 40 | 10-20 |
| Croplan Genetics RC 5419RR | 62.3 | 61.5 | 61.9 | 2.5 | 1.3 | 41 | 10-15 |
| NK S 52-F2 Brand | 59.5 | 64.2 | 61.9 | 2.3 | 1.4 | 38 | 10-9 |
| SS RT 5760N | 58.8 | 64.9 | 61.9 | 1.9 | 1.4 | 41 | 10-15 |
| Croplan Genetics RC 5663RR | 62.1 | 61.5 | 61.8 | 2.4 | 1.0 | 37 | 10-12 |
| Dyna-Gro 33X55 | 59.6 | 63.2 | 61.4 | 1.6 | 1.3 | 39 | 10-13 |
| SS RT 5471N | 54.4 | 67.8 | 61.1 | 1.5 | 1.1 | 38 | 10-10 |
| AGS 554RR | 54.7 | 67.2 | 61.0 | 3.0 | 1.1 | 40 | 10-11 |
| Dyna-Gro 35F55 | 57.0 | 64.7 | 60.9 | 2.5 | 1.3 | 41 | 10-14 |
| Progeny P 5650RR | 54.8 | 66.4 | 60.6 | 3.0 | 1.4 | 40 | 10-18 |
| Terral TV 55R15 | 58.3 | 61.8 | 60.1 | 2.8 | 1.3 | 40 | 10-15 |
| Progeny P 5218RR | 56.1 | 63.5 | 59.8 | 2.5 | 1.1 | 36 | 10-11 |
| Progeny P 5319RR | 60.1 | 58.3 | 59.2 | 2.6 | 1.1 | 42 | 10-14 |
| Asgrow AG 5905 | 56.6 | 61.3 | 58.9 | 1.4 | 1.7 | 43 | 10-18 |
| Hutcheson | 57.3 | 60.4 | 58.8 | 1.9 | 1.5 | 38 | 10-12 |
| Croplan Genetics RC 5892 | 54.9 | 62.5 | 58.7 | 2.0 | 1.3 | 47 | 10-19 |
| Croplan Genetics RC 5955RR | 55.5 | 61.0 | 58.3 | 2.5 | 1.3 | 40 | 10-19 |
| AGS 568RR | 56.7 | 59.2 | 58.0 | 1.9 | 1.3 | 39 | 10-12 |
| NK Brand S59-B8 | 57.1 | 58.6 | 57.9 | 2.5 | 1.3 | 44 | 10-15 |
| SS RT 5960N | 56.6 | 57.3 | 57.0 | 2.5 | 1.6 | 41 | 10-19 |
| Progeny P 5706RR | 54.0 | 59.8 | 56.9 | 2.0 | 1.1 | 40 | 10-17 |
| SS RT 5951N | 52.8 | 59.9 | 56.3 | 1.8 | 1.3 | 38 | 10-17 |
| Trial mean | 58.2 | 69.5 | 63.9 | 2.1 | 1.3 | 39.1 | 10-9 |
| LSD(0.10) | 7.0 | 9.7 | 6.1 | | | | |
| CV (%) | 11.5 | 13.3 | 13.0 | | | | |

TABLE 6. PERFORMANCE OF GROUP IV AND V SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2007 - 2009.

| Variety | Yield | | | Averages | | | |
|----------------------------|-------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| ----- bu/acre ----- | | | - inch - | | | | |
| Maturity Group IV | | | | | | | |
| Progeny P 4908RR | 70.6 | 53.1 | | 1.5 | 1.4 | 33.5 | 9-28 |
| Progeny P 4906RR | 71.2 | 52.2 | | 1.5 | 1.5 | 33.0 | 9-28 |
| Progeny P 4807RR | 68.4 | 49.2 | | 1.5 | 1.5 | 34.2 | 8-31 |
| Progeny P 4949RR | 60.9 | 45.1 | | 1.9 | 1.6 | 33.8 | 10-1 |
| HALO 4:94 | 77.4 | | | 1.6 | 1.1 | 41.3 | 10-5 |
| NK S 49-H7 Brand | 65.7 | | | 1.9 | 1.7 | 40.3 | 10-2 |
| HALO 4:65 | 64.7 | | | 1.6 | 1.6 | 38.7 | 8-4 |
| Maturity Group V | | | | | | | |
| Croplan Genetics RC 5222RR | 67.7 | 56.1 | 44.1 | 1.6 | 1.4 | 34.7 | 10-8 |
| Croplan Genetics RC 5892 | 58.7 | 51.5 | 43.1 | 1.7 | 1.3 | 39.4 | 10-12 |
| USG 7553nRS | 63.3 | 51.6 | 42.0 | 1.3 | 1.4 | 32.3 | 10-13 |
| USG Allen | 62.2 | 52.3 | 41.9 | 1.5 | 1.4 | 34.5 | 10-14 |
| Croplan Genetics RC 5007RR | 68.1 | 53.6 | 41.7 | 1.5 | 1.5 | 33.3 | 10-9 |
| Ozark | 64.7 | 53.2 | 41.7 | 1.6 | 1.5 | 31.7 | 10-7 |
| Croplan Genetics RC 5955RR | 58.3 | 48.5 | 41.6 | 1.8 | 1.4 | 35.1 | 10-13 |
| Dyna-Gro 33X55 | 61.4 | 51.6 | 41.3 | 1.3 | 1.4 | 32.8 | 10-11 |
| SS RT 5760N | 61.9 | 51.1 | 40.9 | 1.6 | 1.5 | 33.4 | 10-12 |
| AGS 568RR | 58.0 | 49.5 | 40.7 | 1.4 | 1.5 | 34.2 | 10-11 |
| SS RT 5471N | 61.1 | 50.9 | 40.0 | 1.2 | 1.4 | 32.0 | 10-9 |
| SS RT 5960N | 57.0 | 48.3 | 39.2 | 1.8 | 1.4 | 34.8 | 10-15 |
| SS RT 5951N | 56.3 | 47.3 | 36.9 | 1.4 | 1.3 | 31.4 | 10-12 |
| USG 75Z98 | 64.6 | 55.2 | | 1.9 | 1.4 | 33.1 | 10-13 |
| Progeny P 5650RR | 60.6 | 54.6 | | 2.7 | 1.4 | 37.2 | 10-13 |
| Osage | 64.1 | 53.2 | | 1.5 | 1.2 | 30.4 | 10-8 |
| Progeny P 5622RR | 62.7 | 53.1 | | 2.1 | 1.2 | 36.3 | 10-14 |
| Asgrow AG 5503 | 69.5 | 51.9 | | 1.5 | 1.4 | 33.7 | 10-4 |
| NK S 52-F2 Brand | 61.9 | 51.0 | | 1.9 | 1.3 | 33.8 | 10-7 |
| Progeny P 5706RR | 56.9 | 49.7 | | 1.6 | 1.2 | 35.5 | 10-14 |
| Progeny P 5218RR | 59.8 | 48.6 | | 2.5 | 1.4 | 32.0 | 10-10 |
| Dyna-Gro 32A53 | 63.0 | 48.3 | | 2.7 | 1.4 | 33.8 | 10-9 |
| USG 75M49 | 71.2 | | | 2.3 | 1.3 | 36.3 | 10-8 |

continued

TABLE 6. CONTINUED.

| Variety | Yield | | | Averages | | | |
|----------------------------|----------------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| | Maturity Group V continued | | | | | | |
| Progeny P 5409RR | 70.6 | | | 2.3 | 1.4 | 43.9 | 10-5 |
| MorSoy RT 5388N | 70.5 | | | 1.4 | 1.1 | 39.0 | 10-11 |
| SS LL 511N | 69.4 | | | 2.4 | 1.1 | 33.7 | 10-11 |
| HALO 5:65 | 68.1 | | | 1.6 | 1.3 | 39.7 | 10-14 |
| Terral TV 54R28 | 67.9 | | | 2.7 | 1.1 | 41.3 | 10-8 |
| Asgrow AG 5405 | 67.6 | | | 2.6 | 1.1 | 36.7 | 10-11 |
| HALO 5:25 | 67.0 | | | 2.3 | 1.4 | 32.7 | 10-12 |
| Schillinger 5440R | 67.0 | | | 2.0 | 1.1 | 34.4 | 10-10 |
| MorSoy RT 5168 | 66.1 | | | 2.4 | 1.1 | 37.9 | 10-3 |
| Schillinger 557RC | 65.2 | | | 2.0 | 1.1 | 38.4 | 10-14 |
| AGS 597RR | 64.2 | | | 2.4 | 1.4 | 39.7 | 10-19 |
| SS LL 595N | 62.5 | | | 1.9 | 1.4 | 40.1 | 10-14 |
| Asgrow AG 5606 | 62.5 | | | 2.9 | 1.6 | 41.6 | 10-18 |
| Croplan Genetics RC 5419RR | 61.9 | | | 2.6 | 1.3 | 42.0 | 10-16 |
| Croplan Genetics RC 5663RR | 61.8 | | | 2.4 | 1.0 | 38.0 | 10-12 |
| AGS 554RR | 61.0 | | | 3.1 | 1.1 | 40.4 | 10-12 |
| Dyna-Gro 35F55 | 60.9 | | | 2.6 | 1.3 | 41.4 | 10-14 |
| Terral TV 55R15 | 60.1 | | | 2.9 | 1.3 | 40.6 | 10-15 |
| Progeny P 5319RR | 59.2 | | | 2.7 | 1.1 | 42.7 | 10-14 |
| Asgrow AG 5905 | 58.9 | | | 1.4 | 1.7 | 43.6 | 10-19 |
| Hutcheson | 58.8 | | | 1.8 | 1.5 | 31.2 | 10-11 |
| NK Brand S59-B8 | 57.9 | | | 1.8 | 1.4 | 38.0 | 10-14 |
| Trial mean | 63.9 | 51.2 | 41.2 | 2.0 | 1.3 | 36.4 | 10-8 |
| LSD(0.10) | 6.1 | 3.6 | 2.8 | | | | |
| CV (%) | 13.0 | 13.3 | 15.7 | | | | |

TABLE 7. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, 2009.

| Variety | Belle Mina | Cross ville | Regional Average | | | | Plant height | Maturity date |
|---------------------|---------------|----------------|------------------|------------------|---------------------|----|-----------------|------------------|
| | | | Yield | Lodging score | Shattering score | | | |
| ----- bu/acre ----- | | | - inches - | | | | | |
| Maturity Group VI | | | | | | | | |
| SS RT 6207N | 65.3 | 64.2 | 64.8 | 2.0 | 1.1 | 39 | 10-18 | |
| R01-2346 | 65.2 | 62.4 | 63.8 | 1.5 | 1.0 | 36 | 10-18 | |
| SS RT 6451N | 58.8 | 54.2 | 56.5 | 1.9 | 1.3 | 43 | 10-18 | |
| Progeny P 6208RR | 56.6 | 56.2 | 56.4 | 3.2 | 1.4 | 39 | 10-20 | |
| AGS 606 RR | 59.4 | 50.9 | 55.1 | 1.9 | 1.0 | 38 | 10-17 | |
| Asgrow AG 6301 | 58.7 | 48.6 | 53.6 | 2.5 | 1.1 | 40 | 10-15 | |
| Desha | 52.2 | 50.2 | 51.2 | 2.2 | 1.1 | 44 | 10-18 | |
| SS RT 6988N | 55.6 | 46.2 | 50.9 | 1.9 | 1.1 | 44 | 10-21 | |
| Progeny P 6708RR | 57.3 | 40.8 | 49.1 | 3.0 | 1.1 | 37 | 10-20 | |
| Maturity Group VII | | | | | | | | |
| Stonewall | 56.2 | 49.1 | 52.6 | 3.8 | 1.3 | 41 | 10-19 | |
| Asgrow AG 7501 | 54.1 | 49.0 | 51.5 | 2.2 | 1.1 | 45 | 10-20 | |
| Progeny P 7208RR | 55.5 | 46.3 | 50.9 | 2.6 | 1.4 | 43 | 10-21 | |
| Deltapine DP 7330RR | 50.4 | 47.0 | 48.7 | 3.5 | 1.3 | 45 | 10-22 | |
| Asgrow AG 7502 | 54.3 | 42.8 | 48.6 | 4.0 | 1.5 | 47 | 10-23 | |
| Trial mean | 57.1 | 50.6 | 53.8 | 2.6 | 1.2 | 42 | 10-19 | |
| LSD(0.10) | 4.7 | 5.6 | 3.7 | | | | | |
| CV (%) | 7.6 | 10.5 | 9.3 | | | | | |

TABLE 8. PERFORMANCE OF GROUP VI AND VII SOYBEAN VARIETIES IN NORTHERN ALABAMA, THREE-YEAR SUMMARY, 2007 - 2009.

| Variety | Yield | | | Averages | | | |
|---------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | - inch - | | | |
| Maturity Group VI | | | | | | | |
| SS RT 6207N | 64.8 | 54.4 | 44.8 | 1.9 | 1.2 | 34.2 | 10-14 |
| SS RT 6451N | 56.5 | 50.5 | 42.0 | 2.2 | 1.3 | 37.4 | 10-16 |
| SS RT 6988N | 50.9 | 45.8 | | 2.1 | 1.2 | 40.4 | 10-19 |
| R01-2346 | 63.8 | | | 1.4 | 1.0 | 36.6 | 10-18 |
| Progeny P 6208RR | 56.4 | | | 3.1 | 1.4 | 39.7 | 10-21 |
| AGS 606 RR | 55.1 | | | 2.0 | 1.0 | 32.9 | 10-15 |
| Asgrow AG 6301 | 53.6 | | | 2.6 | 1.1 | 40.7 | 10-15 |
| Desha | 51.2 | | | 2.3 | 1.1 | 44.7 | 10-18 |
| Progeny P 6708RR | 49.1 | | | 3.1 | 1.1 | 37.7 | 10-20 |
| Maturity Group VII | | | | | | | |
| Stonewall | 52.6 | 47.2 | 39.6 | 2.8 | 1.3 | 36.5 | 10-19 |
| Asgrow AG 7501 | 51.5 | | | 2.1 | 1.1 | 45.6 | 10-20 |
| Progeny P 7208RR | 50.9 | | | 2.7 | 1.4 | 43.9 | 10-21 |
| Deltapine DP 7330RR | 48.7 | | | 3.7 | 1.3 | 45.6 | 10-22 |
| Asgrow AG 7502 | 48.6 | | | 4.1 | 1.6 | 47.0 | 10-23 |
| Trial mean | 53.8 | 49.5 | 42.1 | 2.6 | 1.2 | 40.2 | 10-19 |
| LSD(0.10) | 3.7 | 2.1 | 2.2 | | | | |
| CV (%) | 9.3 | 7.6 | 12.1 | | | | |

TABLE 9. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, 2009.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|----------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group IV | | | | | |
| HALO 4:94 | 58.9 | 0.0 | 0.0 | 33.0 | 10-8 |
| HALO 4:65 | 54.4 | 0.0 | 0.0 | 32.8 | 9-30 |
| Progeny P 4908RR | 52.8 | 0.0 | 0.0 | 29.5 | 9-30 |
| Progeny P 4949RR | 51.9 | 0.0 | 0.0 | 32.0 | 9-29 |
| Croplan Genetics RC 4998RR | 48.6 | 0.0 | 0.0 | 36.0 | 10-10 |
| Progeny P 4906RR | 47.2 | 0.0 | 0.0 | 32.0 | 9-30 |
| Progeny P 4807RR | 45.8 | 0.0 | 0.0 | 30.0 | 9-28 |
| Maturity Group V | | | | | |
| HALO 5:25 | 64.0 | 0.0 | 0.0 | 27.3 | 10-14 |
| Terral TV 55R15 | 61.2 | 0.0 | 0.0 | 30.8 | 10-13 |
| Progeny P 5319RR | 60.6 | 0.0 | 0.0 | 29.5 | 10-10 |
| Asgrow AG 5905 | 60.5 | 0.0 | 0.0 | 32.3 | 10-15 |
| HALO 5:65 | 58.6 | 0.0 | 0.0 | 29.3 | 10-13 |
| Croplan Genetics RC 5663RR | 58.0 | 0.0 | 0.0 | 25.5 | 10-6 |
| AGS 568RR | 57.8 | 0.0 | 0.0 | 25.5 | 10-11 |
| Osage | 57.5 | 0.0 | 0.0 | 23.5 | 10-14 |
| Progeny P 5706RR | 57.1 | 0.0 | 0.0 | 25.5 | 10-19 |
| Dyna-Gro 33C59 | 56.5 | 0.0 | 0.0 | 26.0 | 10-15 |
| Dyna-Gro 35F55 | 56.3 | 0.0 | 0.0 | 30.0 | 10-13 |
| Hutcheson | 56.1 | 0.0 | 0.0 | 24.8 | 10-13 |
| USG 75M49 | 54.3 | 0.0 | 0.0 | 26.5 | 10-11 |
| Dyna-Gro 32B57 | 54.2 | 0.0 | 0.0 | 25.0 | 10-14 |
| Progeny P 5622RR | 53.7 | 0.0 | 0.0 | 26.0 | 10-16 |
| Progeny P 5650RR | 53.7 | 0.0 | 0.0 | 28.3 | 10-17 |
| Terral TV 54R28 | 52.8 | 0.0 | 0.0 | 27.0 | 10-7 |
| Ozark | 51.9 | 0.0 | 0.0 | 26.3 | 10-7 |
| USG 75Z98 | 51.8 | 0.0 | 0.0 | 25.3 | 10-17 |
| MorSoy RT 5168 | 51.6 | 0.0 | 0.0 | 32.5 | 9-30 |

continued

TABLE 9. CONTINUED.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|----------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group V continued | | | | | |
| Progeny P 5409RR | 50.8 | 0.0 | 0.0 | 37.5 | 10-8 |
| USG 7553nRS | 50.6 | 0.0 | 0.0 | 27.0 | 10-10 |
| USG Allen | 50.4 | 0.0 | 0.0 | 25.0 | 10-20 |
| Dyna-Gro 33X55 | 50.3 | 0.0 | 0.0 | 22.0 | 10-11 |
| Dyna-Gro 36N57 | 49.7 | 0.0 | 0.0 | 25.0 | 10-6 |
| Dyna-Gro 32A53 | 47.5 | 0.0 | 0.0 | 23.0 | 10-4 |
| MorSoy RT 5388N | 47.3 | 0.0 | 0.0 | 27.0 | 10-8 |
| Progeny P 5218RR | 43.8 | 0.0 | 0.0 | 23.0 | 10-7 |
| Maturity Group VI | | | | | |
| Asgrow AG 6702 | 65.1 | 0.0 | 0.0 | 32.3 | 10-29 |
| Progeny P 6708RR | 59.8 | 0.0 | 0.0 | 27.8 | 10-28 |
| Progeny P 6208RR | 59.3 | 0.0 | 0.0 | 29.5 | 10-20 |
| Desha | 58.9 | 0.0 | 0.0 | 27.5 | 10-23 |
| Croplan Genetics RC 6298 | 54.0 | 0.0 | 0.0 | 23.5 | 10-23 |
| Asgrow AG 6301 | 51.9 | 0.0 | 0.0 | 25.8 | 10-18 |
| R01-2346 | 50.3 | 0.0 | 0.0 | 26.0 | 10-16 |
| Dyna-Gro 36T60 | 44.5 | 0.0 | 0.0 | 21.3 | 10-17 |
| AGS 606 RR | 39.2 | 0.0 | 0.0 | 20.0 | 10-17 |
| Maturity Group VII | | | | | |
| Asgrow AG 7501 | 64.4 | 0.0 | 0.0 | 34.8 | 10-31 |
| Croplan Genetics RT 7355 | 63.4 | 0.0 | 0.0 | 28.3 | 10-30 |
| Dyna-Gro 35K73 | 62.9 | 0.0 | 0.0 | 30.0 | 10-27 |
| Dyna-Gro V76N9RR | 62.6 | 0.0 | 0.0 | 30.5 | 10-28 |
| Deltapine DP 7330RR | 56.8 | 0.0 | 0.0 | 29.5 | 10-27 |
| Stonewall | 56.3 | 0.0 | 0.0 | 27.0 | 10-28 |
| Asgrow AG 7502 | 56.1 | 0.0 | 0.0 | 33.3 | 11-5 |
| Progeny P 7208RR | 53.6 | 0.0 | 0.0 | 29.3 | 10-25 |
| Trial mean | 54.6 | 0.0 | 0.0 | 28.0 | 10-14 |
| LSD(0.10) | 9.2 | | | | |
| CV (%) | 16.1 | | | | |

TABLE 10. PERFORMANCE OF SOYBEAN VARIETIES AT SHORTER, ALABAMA, THREE-YEAR SUMMARY, 2007-2009.

| Variety | Yield | | | Averages | | | |
|----------------------------|----------------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- <i>bu/acre</i> ----- | | | | | - <i>inch</i> - | |
| Maturity Group IV | | | | | | | |
| Progeny P 4908RR | 52.8 | 53.9 | | 0.0 | 0.0 | 32.9 | 9-21 |
| Progeny P 4949RR | 51.9 | 50.6 | | 0.0 | 0.0 | 34.1 | 9-22 |
| Progeny P 4906RR | 47.2 | 48.4 | | 0.0 | 0.0 | 34.9 | 9-22 |
| Progeny P 4807RR | 45.8 | 45.3 | | 0.0 | 0.0 | 31.9 | 9-20 |
| HALO 4:94 | 58.9 | | | 0.0 | 0.0 | 33.0 | 10-8 |
| HALO 4:65 | 54.4 | | | 0.0 | 0.0 | 32.8 | 9-30 |
| Croplan Genetics RC 4998RR | 48.6 | | | 0.0 | 0.0 | 36.0 | 10-10 |
| Maturity Group V | | | | | | | |
| Asgrow AG 5905 | 60.5 | 60.7 | 49.7 | 0.0 | 0.1 | 34.6 | 10-7 |
| AGS 568RR | 57.8 | 58.6 | 47.0 | 0.0 | 0.0 | 28.8 | 10-4 |
| USG Allen | 50.4 | 54.5 | 46.5 | 0.0 | 0.1 | 28.0 | 10-9 |
| Ozark | 51.9 | 55.2 | 46.2 | 0.0 | 0.0 | 28.6 | 10-2 |
| USG 7553nRS | 50.6 | 51.9 | 40.9 | 0.0 | 0.0 | 27.2 | 10-2 |
| Osage | 57.5 | 58.0 | | 0.0 | 0.0 | 26.3 | 10-7 |
| Progeny P 5706RR | 57.1 | 57.8 | | 0.0 | 0.0 | 29.5 | 10-10 |
| USG 75Z98 | 51.8 | 56.9 | | 0.0 | 0.0 | 29.9 | 10-8 |
| Progeny P 5650RR | 53.7 | 56.5 | | 0.0 | 0.0 | 33.1 | 10-9 |
| Progeny P 5622RR | 53.7 | 53.2 | | 0.0 | 0.0 | 30.0 | 10-7 |
| Progeny P 5218RR | 43.8 | 50.0 | | 0.0 | 0.0 | 25.9 | 10-2 |
| HALO 5:25 | 64.0 | | | 0.0 | 0.0 | 27.3 | 10-14 |
| Terral TV 55R15 | 61.2 | | | 0.0 | 0.0 | 30.8 | 10-13 |
| Progeny P 5319RR | 60.6 | | | 0.0 | 0.0 | 29.5 | 10-10 |
| HALO 5:65 | 58.6 | | | 0.0 | 0.0 | 29.3 | 10-13 |
| Croplan Genetics RC 5663RR | 58.0 | | | 0.0 | 0.0 | 25.5 | 10-6 |
| Dyna-Gro 33C59 | 56.5 | | | 0.0 | 0.0 | 26.0 | 10-15 |
| Dyna-Gro 35F55 | 56.3 | | | 0.0 | 0.0 | 30.0 | 10-13 |
| Hutcheson | 56.1 | | | 0.0 | 0.0 | 24.4 | 10-9 |
| USG 75M49 | 54.3 | | | 0.0 | 0.0 | 26.5 | 10-11 |
| Dyna-Gro 32B57 | 54.2 | | | 0.0 | 0.0 | 25.0 | 10-14 |
| Terral TV 54R28 | 52.8 | | | 0.0 | 0.0 | 27.0 | 10-7 |

continued

TABLE 10. CONTINUED.

| Variety | Yield | | | Averages | | | |
|----------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group V continued | | | | | | | |
| MorSoy RT 5168 | 51.6 | | | 0.0 | 0.0 | 32.5 | 9-30 |
| Progeny P 5409RR | 50.8 | | | 0.0 | 0.0 | 37.5 | 10-8 |
| Dyna-Gro 33X55 | 50.3 | | | 0.0 | 0.0 | 22.0 | 10-11 |
| Dyna-Gro 36N57 | 49.7 | | | 0.0 | 0.0 | 25.0 | 10-6 |
| Dyna-Gro 32A53 | 47.5 | | | 0.0 | 0.0 | 23.0 | 10-4 |
| MorSoy RT 5388N | 47.3 | | | 0.0 | 0.0 | 27.0 | 10-8 |
| Maturity Group VI | | | | | | | |
| Asgrow AG 6301 | 51.9 | 54.3 | 44.1 | 0.0 | 0.0 | 29.9 | 10-10 |
| Asgrow AG 6702 | 65.1 | 56.3 | | 0.0 | 0.0 | 34.5 | 10-18 |
| Croplan Genetics RC 6298 | 54.0 | 55.8 | | 0.0 | 0.0 | 27.8 | 10-13 |
| Progeny P 6708RR | 59.8 | | | 0.0 | 0.0 | 27.8 | 10-28 |
| Progeny P 6208RR | 59.3 | | | 0.0 | 0.0 | 29.5 | 10-20 |
| Desha | 58.9 | | | 0.0 | 0.0 | 27.5 | 10-23 |
| R01-2346 | 50.3 | | | 0.0 | 0.0 | 26.0 | 10-16 |
| Dyna-Gro 36T60 | 44.5 | | | 0.0 | 0.0 | 21.3 | 10-17 |
| AGS 606 RR | 39.2 | | | 0.0 | 0.1 | 22.9 | 10-11 |
| Maturity Group VII | | | | | | | |
| Deltapine DP 7330RR | 56.8 | 53.2 | 44.1 | 0.0 | 0.2 | 29.7 | 10-18 |
| Asgrow AG 7501 | 64.4 | 55.1 | 44.1 | 0.0 | 0.0 | 34.3 | 10-19 |
| Stonewall | 56.3 | 51.5 | 42.0 | 0.0 | 0.1 | 27.3 | 10-17 |
| Croplan Genetics RT 7355 | 63.4 | 53.7 | | 0.0 | 0.0 | 28.9 | 10-22 |
| Asgrow AG 7502 | 56.1 | 49.2 | | 0.0 | 0.0 | 36.1 | 10-25 |
| Dyna-Gro 35K73 | 62.9 | | | 0.0 | 0.0 | 30.0 | 10-27 |
| Dyna-Gro V76N9RR | 62.6 | | | 0.0 | 0.0 | 30.5 | 10-28 |
| Progeny P 7208RR | 53.6 | | | 0.0 | 0.0 | 29.3 | 10-25 |
| Trial mean | 54.6 | 53.9 | 45.0 | 0.0 | 0.0 | 27.3 | 11-20 |
| LSD(0.10) | 5.0 | 3.6 | 2.5 | | | | |
| CV (%) | 12.3 | 12.6 | 13.1 | | | | |

TABLE 11. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, 2009.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|----------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group IV | | | | | |
| HALO 4:94 | 33.5 | 0.0 | 0.0 | 34.0 | 9-28 |
| Croplan Genetics RC 4998RR | 33.1 | 0.3 | 0.0 | 42.0 | 10-3 |
| HALO 4:65 | 26.4 | 0.5 | 0.0 | 36.5 | 9-30 |
| Maturity Group V | | | | | |
| Dyna-Gro 33C59 | 42.4 | 0.0 | 0.0 | 29.8 | 10-7 |
| HALO 5:25 | 38.6 | 0.0 | 0.0 | 25.3 | 9-27 |
| Armor GP-533 | 38.2 | 0.3 | 0.0 | 31.5 | 10-8 |
| Delta King 52K6 | 37.9 | 0.0 | 0.0 | 33.8 | 10-6 |
| MorSoy RT 5168 | 37.1 | 0.0 | 0.0 | 36.5 | 10-1 |
| HALO 5:65 | 37.0 | 0.0 | 0.0 | 31.8 | 10-5 |
| Dyna-Gro 32A53 | 36.1 | 0.5 | 0.0 | 29.5 | 10-4 |
| Osage | 35.9 | 0.0 | 0.0 | 22.0 | 9-29 |
| Ozark | 35.4 | 0.0 | 0.0 | 29.3 | 10-2 |
| Croplan Genetics RC 5663RR | 35.3 | 0.5 | 0.0 | 31.0 | 10-1 |
| Dyna-Gro 35F55 | 35.1 | 1.5 | 0.0 | 35.5 | 10-4 |
| MorSoy RT 5388N | 33.7 | 0.0 | 0.0 | 30.8 | 10-1 |
| Dyna-Gro 33X55 | 33.3 | 0.0 | 0.0 | 29.5 | 10-3 |
| Delta King 5567 | 32.7 | 0.5 | 0.0 | 32.0 | 9-30 |
| Dyna-Gro 36N57 | 32.6 | 0.3 | 0.0 | 28.0 | 10-7 |
| Asgrow AG 5905 | 32.6 | 0.0 | 0.0 | 41.3 | 10-5 |
| Dyna-Gro 32B57 | 32.4 | 0.0 | 0.0 | 27.3 | 10-5 |
| Armor GP-500 | 31.1 | 0.5 | 0.0 | 34.0 | 10-2 |
| Hutcheson | 26.2 | 0.3 | 0.0 | 28.3 | 9-27 |

continued

TABLE 11. CONTINUED.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|--------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group VI | | | | | |
| Desha | 41.2 | 0.0 | 0.0 | 33.0 | 10-8 |
| Croplan Genetics RC 6298 | 39.5 | 0.0 | 0.0 | 33.0 | 10-17 |
| Dyna-Gro 36T60 | 38.4 | 0.0 | 0.0 | 27.5 | 10-11 |
| R01-2346 | 37.1 | 0.5 | 0.0 | 27.0 | 10-6 |
| Asgrow AG 6702 | 35.6 | 0.5 | 0.0 | 41.0 | 10-24 |
| Asgrow AG 6301 | 31.2 | 0.0 | 0.0 | 36.0 | 10-4 |
| Maturity Group VII | | | | | |
| Dyna-Gro 35K73 | 41.5 | 0.3 | 0.0 | 36.8 | 10-17 |
| Croplan Genetics RT 7355 | 38.6 | 0.0 | 0.0 | 30.8 | 10-18 |
| Dyna-Gro V76N9RR | 35.8 | 1.0 | 0.0 | 40.5 | 10-23 |
| Asgrow AG 7501 | 35.0 | 0.5 | 0.0 | 38.5 | 10-22 |
| Deltapine DP 7330RR | 34.4 | 0.0 | 0.0 | 36.3 | 10-16 |
| Deltapine DP 7870RR | 34.1 | 0.7 | 0.0 | 40.3 | 10-22 |
| AGS 758 RR | 34.1 | 0.0 | 0.0 | 32.3 | 10-19 |
| Asgrow AG 7502 | 31.9 | 1.5 | 0.0 | 40.3 | 10-25 |
| Benning | 31.9 | 0.0 | 0.0 | 39.5 | 10-18 |
| Stonewall | 30.6 | 0.3 | 0.0 | 36.0 | 10-18 |
| Woodruff | 30.5 | 0.3 | 0.0 | 34.8 | 10-16 |
| AGS 747 RR | 25.4 | 0.0 | 0.0 | 34.8 | 10-22 |
| Maturity Group VIII | | | | | |
| Au 02-2814 | 32.2 | 0.0 | 0.0 | 37.3 | 10-24 |
| Pritchard RR | 19.5 | 1.0 | 0.0 | 41.5 | 10-27 |
| Trial mean | 34.2 | 0.3 | 0.0 | 33.7 | 10-10 |
| LSD(0.10) | 4.5 | | | | |
| CV (%) | 12.4 | | | | |

TABLE 12. PERFORMANCE OF SOYBEAN VARIETIES ON VAIDEN SOIL, MARION JUNCTION, ALABAMA, THREE-YEAR SUMMARY, 2007-2009

| Variety | Yield | | Averages | | | | |
|----------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group IV | | | | | | | |
| HALO 4:94 | 33.5 | | † | 0.0 | | 34.0 | 9-28 |
| Croplan Genetics RC 4998RR | 33.1 | | | 0.3 | | 42.0 | 10-3 |
| HALO 4:65 | 26.4 | | | 0.5 | | 36.5 | 9-30 |
| Maturity Group V | | | | | | | |
| Osage | 35.9 | 40.4 | | 0.5 | 2.0 | 22.3 | 10-2 |
| Ozark | 35.4 | 40.3 | | 0.5 | 2.0 | 27.0 | 10-3 |
| Asgrow AG 5905 | 32.6 | 38.6 | | 0.8 | 2.0 | 36.4 | 10-9 |
| Dyna-Gro 33C59 | 42.4 | | | 0.0 | | 29.8 | 10-7 |
| HALO 5:25 | 38.6 | | | 0.0 | | 25.3 | 9-27 |
| Armor GP-533 | 38.2 | | | 0.3 | | 31.5 | 10-8 |
| Delta King 52K6 | 37.9 | | | 0.0 | | 33.8 | 10-6 |
| MorSoy RT 5168 | 37.1 | | | 0.0 | | 36.5 | 10-1 |
| HALO 5:65 | 37.0 | | | 0.0 | | 31.8 | 10-5 |
| Dyna-Gro 32A53 | 36.1 | | | 0.5 | | 29.5 | 10-4 |
| Croplan Genetics RC 5663RR | 35.3 | | | 0.5 | | 31.0 | 10-1 |
| Dyna-Gro 35F55 | 35.1 | | | 1.5 | | 35.5 | 10-4 |
| MorSoy RT 5388N | 33.7 | | | 0.0 | | 30.8 | 10-1 |
| Dyna-Gro 33X55 | 33.3 | | | 0.0 | | 29.5 | 10-3 |
| Delta King 5567 | 32.7 | | | 0.5 | | 32.0 | 9-30 |
| Dyna-Gro 36N57 | 32.6 | | | 0.3 | | 28.0 | 10-7 |
| Dyna-Gro 32B57 | 32.4 | | | 0.0 | | 27.3 | 10-5 |
| Armor GP-500 | 31.1 | | | 0.5 | | 34.0 | 10-2 |
| Hutcheson | 26.2 | | | 0.3 | | 28.3 | 9-27 |
| Maturity Group VI | | | | | | | |
| Asgrow AG 6301 | 31.2 | 36.4 | | 0.6 | 1.0 | 33.0 | 10-7 |
| Asgrow AG 6702 | 35.6 | 36.1 | | 0.9 | 1.0 | 35.3 | 10-22 |
| Desha | 41.2 | | | 0.0 | | 33.0 | 10-8 |
| Croplan Genetics RC 6298 | 39.5 | | | 0.0 | | 33.0 | 10-17 |
| Dyna-Gro 36T60 | 38.4 | | | 0.0 | | 27.5 | 10-11 |
| R01-2346 | 37.1 | | | 0.5 | | 27.0 | 10-6 |

continued

TABLE 12. CONTINUED.

| Variety | Yield | | Averages | | | | |
|--------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group VII | | | | | | | |
| Deltapine DP 7330RR | 34.4 | 38.4 | | 0.6 | 1.0 | 34.4 | 10-16 |
| Asgrow AG 7501 | 35.0 | 37.5 | | 0.8 | 1.0 | 36.0 | 10-18 |
| Deltapine DP 7870RR | 34.1 | 36.9 | | 1.5 | 1.0 | 38.1 | 10-25 |
| Stonewall | 30.6 | 34.9 | | 0.9 | 1.0 | 34.8 | 10-16 |
| Asgrow AG 7502 | 31.9 | 33.9 | | 2.0 | 2.0 | 39.5 | 10-23 |
| Dyna-Gro 35K73 | 41.5 | | | 0.3 | | 36.8 | 10-17 |
| Croplan Genetics RT 7355 | 38.6 | | | 0.0 | | 30.8 | 10-18 |
| Dyna-Gro V76N9RR | 35.8 | | | 1.0 | | 40.5 | 10-23 |
| AGS 758 RR | 34.1 | | | 0.0 | | 32.3 | 10-19 |
| Benning | 31.9 | | | 0.0 | | 39.5 | 10-18 |
| Woodruff | 30.5 | | | 0.3 | | 34.8 | 10-16 |
| AGS 747 RR | 25.4 | | | 0.0 | | 34.8 | 10-22 |
| Maturity Group VIII | | | | | | | |
| Au 02-2814 | 32.2 | | | 0.0 | | 37.3 | 10-24 |
| Pritchard RR | 19.5 | | | 1.0 | | 41.5 | 10-27 |
| Trial mean | 34.2 | 37.3 | | 0.4 | 1.4 | 33.1 | 10-10 |
| LSD(0.10) | 3.0 | 1.8 | | | | | |
| CV (%) | 12.0 | 9.2 | | | | | |

† The 2007 trial was not planted due to extreme drought conditions.

TABLE 13. IRON CHLOROSIS RATING OF SOYBEAN VARIETIES ON SUMTER SOIL, MARION JUNCTION, ALABAMA, 2009†.

| Cultivar | Iron chlorosis rating † | Cultivar | Iron chlorosis rating † |
|----------------------------|-------------------------|-------------------|-------------------------|
| AGS 747 RR | 9.4 | Dyna-Gro 32B57 | 7.6 |
| AGS 758 RR | 7.9 | Dyna-Gro 33C59 | 9.0 |
| Armor GP-500 | 9.0 | Dyna-Gro 33X55 | 8.6 |
| Armor GP-533 | 8.9 | Dyna-Gro 35F55 | 7.8 |
| Asgrow AG 5905 | 8.3 | Dyna-Gro 35K73 | 8.0 |
| Asgrow AG 6301 | 7.9 | Dyna-Gro 36N57 | 9.1 |
| Asgrow AG 6702 | 7.9 | Dyna-Gro 36T60 | 7.6 |
| Asgrow AG 7501 | 9.1 | Dyna-Gro V76N9RR | 8.4 |
| Asgrow AG 7502 | 8.3 | HALO 4:65 | 9.3 |
| Au 02-2814 | 8.4 | HALO 4:94 | 8.0 |
| Benning | 6.8 | HALO 5:25 | 7.0 |
| Croplan Genetics RC 4998RR | 8.8 | HALO 5:65 | 4.3 |
| Croplan Genetics RC 5663RR | 9.4 | Hutcheson | 8.0 |
| Croplan Genetics RC 6298 | 8.1 | MorSoy RT 5168 | 8.8 |
| Croplan Genetics RT 7355 | 7.3 | MorSoy RT 5388N | 8.3 |
| Delta King 52K6 | 8.6 | Osage | 5.5 |
| Delta King 5567 | 9.1 | Ozark | 7.5 |
| Deltapine DP 7330RR | 7.6 | Pritchard RR | 8.4 |
| Deltapine DP 7870RR | 7.4 | R01-2346 | 8.0 |
| Desha | 5.8 | Stonewall | 8.3 |
| Dyna-Gro 32A53 | 7.6 | Woodruff | 8.1 |
| | | Trial mean | 8.0 |

† The trial was not harvested for yield

‡ Iron chlorosis ratings made on July 10, 2009. 1 = no chlorosis; 10 = plants losing leaves due to necrotic spots on leaves.

TABLE 14. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, 2009.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|----------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group IV | | | | | |
| HALO 4:94 | 55.2 | 3.0 | 3.0 | 38.5 | 10-1 |
| HALO 4:65 | 52.1 | 3.0 | 2.3 | 38.0 | 10-1 |
| Croplan Genetics RC 4998RR | 50.1 | 3.0 | 1.3 | 45.8 | 10-12 |
| Progeny P 4949RR | 43.6 | 3.8 | 2.3 | 43.0 | 9-29 |
| Maturity Group V | | | | | |
| HALO 5:25 | 65.0 | 2.5 | 1.3 | 32.0 | 10-10 |
| Osage | 64.8 | 1.5 | 2.8 | 30.5 | 10-3 |
| Progeny P 5622RR | 62.1 | 2.5 | 2.0 | 35.3 | 10-13 |
| Croplan Genetics RC 5663RR | 59.7 | 3.8 | 1.3 | 32.8 | 10-6 |
| HALO 5:65 | 58.8 | 2.8 | 2.0 | 34.3 | 10-13 |
| MorSoy RT 5388N | 58.8 | 2.5 | 1.8 | 33.3 | 10-5 |
| Progeny P 5218RR | 58.4 | 3.0 | 1.8 | 31.3 | 10-7 |
| Dyna-Gro 36N57 | 57.8 | 3.2 | 1.3 | 32.3 | 10-8 |
| Progeny P 5319RR | 57.5 | 3.3 | 2.3 | 33.8 | 10-10 |
| Progeny P 5706RR | 57.2 | 2.8 | 2.3 | 37.3 | 10-12 |
| Hutcheson | 55.8 | 3.2 | 2.0 | 32.0 | 10-1 |
| Dyna-Gro 32B57 | 55.2 | 2.8 | 1.3 | 35.0 | 10-1 |
| Dyna-Gro 33X55 | 55.1 | 3.0 | 2.5 | 35.3 | 10-1 |
| Dyna-Gro 35F55 | 54.9 | 3.5 | 1.3 | 32.8 | 10-12 |
| Ozark | 54.8 | 3.0 | 1.3 | 32.8 | 10-3 |
| Asgrow AG 5905 | 53.4 | 2.2 | 2.8 | 37.8 | 10-7 |
| Progeny P 5650RR | 52.7 | 3.2 | 1.8 | 35.8 | 10-9 |
| MorSoy RT 5168 | 51.6 | 4.0 | 1.8 | 39.0 | 10-1 |
| Progeny P 5409RR | 50.4 | 3.0 | 1.5 | 44.0 | 10-10 |

continued

TABLE 14. CONTINUED.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|--------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group VI | | | | | |
| Progeny P 6708RR | 63.0 | 2.5 | 1.0 | 33.0 | 10-19 |
| Asgrow AG 6702 | 62.3 | 3.2 | 1.0 | 38.5 | 10-21 |
| R01-2346 | 61.3 | 2.3 | 2.5 | 30.0 | 10-12 |
| Croplan Genetics RC 6298 | 56.5 | 2.5 | 1.3 | 32.3 | 10-13 |
| Desha | 55.1 | 2.5 | 2.5 | 38.3 | 10-13 |
| Asgrow AG 6301 | 52.9 | 2.8 | 1.8 | 35.3 | 10-10 |
| Progeny P 6208RR | 51.0 | 3.0 | 1.3 | 38.8 | 10-17 |
| Maturity Group VII | | | | | |
| Asgrow AG 7501 | 62.3 | 2.8 | 1.3 | 36.5 | 10-27 |
| Asgrow AG 7502 | 59.5 | 3.0 | 1.0 | 39.5 | 10-28 |
| Progeny P 7208RR | 59.4 | 2.8 | 1.5 | 33.8 | 10-21 |
| Dyna-Gro V76N9RR | 59.2 | 3.0 | 1.0 | 35.5 | 10-25 |
| Croplan Genetics RT 7355 | 57.7 | 2.0 | 1.0 | 35.3 | 10-21 |
| Deltapine DP 7330RR | 56.5 | 2.8 | 1.0 | 37.0 | 10-17 |
| Deltapine DP 7870RR | 55.6 | 3.2 | 1.0 | 36.0 | 10-21 |
| AGS 758 RR | 55.1 | 2.8 | 1.0 | 39.0 | 10-18 |
| AGS 747 RR | 54.1 | 1.3 | 1.0 | 41.5 | 10-25 |
| Woodruff | 49.6 | 2.5 | 1.0 | 36.3 | 10-15 |
| Stonewall | 49.5 | 3.5 | 1.3 | 36.5 | 10-16 |
| Benning | 48.6 | 3.0 | 1.0 | 35.8 | 10-17 |
| Maturity Group VIII | | | | | |
| Au 02-2814 | 58.0 | 3.0 | 1.0 | 37.0 | 10-28 |
| Pritchard RR | 43.5 | 3.2 | 1.0 | 40.0 | 10-27 |
| Trial mean | 55.8 | 2.9 | 1.6 | 36.1 | 10-13 |
| LSD(0.10) | 6.1 | | | | |
| CV (%) | 10.5 | | | | |

TABLE 15. PERFORMANCE OF SOYBEAN VARIETIES AT FAIRHOPE, ALABAMA, THREE-YEAR SUMMARY, 2007-2009.

| Variety | Yield | | | Averages | | | |
|----------------------------|----------------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- <i>bu/acre</i> ----- | | | | | - <i>inch</i> - | |
| Maturity Group IV | | | | | | | |
| HALO 4:94 | 55.2 | | | 3.0 | 3.0 | 38.5 | 10-1 |
| HALO 4:65 | 52.1 | | | 3.0 | 2.3 | 38.0 | 10-1 |
| Croplan Genetics RC 4998RR | 50.1 | | | 3.0 | 1.3 | 45.8 | 10-12 |
| Progeny P 4949RR | 43.6 | | | 3.8 | 2.3 | 43.0 | 9-29 |
| Maturity Group V | | | | | | | |
| Dyna-Gro 33X55 | 55.1 | 49.3 | 53.8 | 2.5 | 1.8 | 36.8 | 10-3 |
| Ozark | 54.8 | 52.3 | 53.6 | 3.2 | 1.5 | 36.1 | 10-6 |
| Asgrow AG 5905 | 53.4 | 46.2 | 51.8 | 2.4 | 1.6 | 43.2 | 10-7 |
| Osage | 64.8 | 59.2 | | 2.0 | 2.0 | 29.4 | 9-30 |
| Dyna-Gro 32B57 | 55.2 | 47.1 | | 2.8 | 1.1 | 37.4 | 9-30 |
| HALO 5:25 | 65.0 | | | 2.5 | 1.3 | 32.0 | 10-10 |
| Progeny P 5622RR | 62.1 | | | 2.5 | 2.0 | 35.3 | 10-13 |
| Croplan Genetics RC 5663RR | 59.7 | | | 3.8 | 1.3 | 32.8 | 10-6 |
| HALO 5:65 | 58.8 | | | 2.8 | 2.0 | 34.3 | 10-13 |
| MorSoy RT 5388N | 58.8 | | | 2.5 | 1.8 | 33.3 | 10-5 |
| Progeny P 5218RR | 58.4 | | | 3.0 | 1.8 | 31.3 | 10-7 |
| Dyna-Gro 36N57 | 57.8 | | | 2.5 | 1.1 | 37.6 | 10-5 |
| Progeny P 5319RR | 57.5 | | | 3.3 | 2.3 | 33.8 | 10-10 |
| Progeny P 5706RR | 57.2 | | | 2.8 | 2.3 | 37.3 | 10-12 |
| Hutcheson | 55.8 | | | 2.3 | 2.0 | 28.9 | 10-2 |
| Dyna-Gro 35F55 | 54.9 | | | 3.5 | 1.3 | 32.8 | 10-12 |
| Progeny P 5650RR | 52.7 | | | 3.3 | 1.8 | 35.8 | 10-9 |
| MorSoy RT 5168 | 51.6 | | | 4.0 | 1.8 | 39.0 | 10-1 |
| Progeny P 5409RR | 50.4 | | | 3.0 | 1.5 | 44.0 | 10-10 |

continued

TABLE 15. CONTINUED.

| Variety | Yield | | | Averages | | | |
|--------------------------|----------------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- <i>bu/acre</i> ----- | | | | | - <i>inch</i> - | |
| Maturity Group VI | | | | | | | |
| Asgrow AG 6301 | 52.9 | 45.1 | 50.1 | 2.5 | 1.3 | 38.8 | 10-10 |
| Asgrow AG 6702 | 62.3 | 52.5 | | 3.3 | 1.0 | 41.8 | 10-19 |
| Croplan Genetics RC 6298 | 56.5 | 47.8 | | 2.9 | 1.1 | 35.1 | 10-11 |
| Progeny P 6708RR | 63.0 | | | 2.5 | 1.0 | 33.0 | 10-19 |
| R01-2346 | 61.3 | | | 2.3 | 2.5 | 30.0 | 10-12 |
| Desha | 55.1 | | | 2.5 | 2.5 | 38.3 | 10-13 |
| Progeny P 6208RR | 51.0 | | | 3.0 | 1.3 | 38.8 | 10-17 |
| Maturity Group VII | | | | | | | |
| Croplan Genetics RT 7355 | 57.7 | 49.0 | 55.6 | 2.4 | 1.0 | 37.3 | 10-22 |
| Asgrow AG 7501 | 62.3 | 50.6 | 55.5 | 2.8 | 1.1 | 40.7 | 10-26 |
| Deltapine DP 7870RR | 55.6 | 48.8 | 54.5 | 3.5 | 1.1 | 42.8 | 10-21 |
| AGS 758 RR | 55.1 | 47.6 | 52.7 | 2.9 | 1.0 | 39.2 | 10-19 |
| Deltapine DP 7330RR | 56.5 | 45.5 | 52.7 | 2.5 | 1.0 | 39.3 | 10-18 |
| Stonewall | 49.5 | 39.9 | 45.4 | 2.9 | 1.2 | 38.1 | 10-18 |
| Asgrow AG 7502 | 59.5 | 49.7 | | 3.3 | 1.0 | 42.5 | 10-25 |
| Progeny P 7208RR | 59.4 | | | 2.8 | 1.5 | 33.8 | 10-21 |
| Dyna-Gro V76N9RR | 59.2 | | | 3.0 | 1.0 | 35.5 | 10-25 |
| AGS 747 RR | 54.1 | | | 1.3 | 1.0 | 41.5 | 10-25 |
| Woodruff | 49.6 | | | 2.5 | 1.0 | 36.3 | 10-15 |
| Benning | 48.6 | | | 3.0 | 1.0 | 35.8 | 10-17 |
| Maturity Group VIII | | | | | | | |
| Au 02-2814 | 58.0 | 48.8 | 55.7 | 3.3 | 1.0 | 40.4 | 10-26 |
| Pritchard RR | 43.5 | 36.0 | 43.4 | 3.7 | 1.2 | 41.4 | 10-26 |
| Trial mean | 55.8 | 48.0 | 52.1 | 2.9 | 1.5 | 37.2 | 10-12 |
| LSD(0.10) | 4.2 | 2.2 | 1.7 | | | | |
| CV (%) | 10.1 | 8.7 | 7.6 | | | | |

TABLE 16. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, 2009.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|----------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group IV | | | | | |
| HALO 4:94 | 56.7 | 1.0 | 0.0 | 31.3 | 9-26 |
| HALO 4:65 | 52.9 | 1.0 | 0.0 | 29.0 | 9-24 |
| Croplan Genetics RC 4998RR | 49.5 | 1.0 | 0.0 | 37.5 | 9-27 |
| Progeny P 4949RR | 43.7 | 1.0 | 0.0 | 30.0 | 9-24 |
| Maturity Group V | | | | | |
| Terral TV 55R15 | 60.2 | 1.0 | 0.0 | 28.8 | 10-3 |
| HALO 5:65 | 59.5 | 1.0 | 0.0 | 23.5 | 10-5 |
| Ozark | 57.6 | 1.0 | 0.0 | 22.3 | 10-1 |
| HALO 5:25 | 57.6 | 1.0 | 0.0 | 18.3 | 10-3 |
| Progeny P 5622RR | 57.0 | 1.0 | 0.0 | 24.3 | 10-7 |
| Asgrow AG 5905 | 56.7 | 1.0 | 0.0 | 25.0 | 10-5 |
| Progeny P 5650RR | 56.5 | 1.0 | 0.0 | 25.0 | 10-7 |
| Progeny P 5319RR | 56.2 | 1.0 | 0.0 | 27.5 | 10-3 |
| Dyna-Gro 35F55 | 55.2 | 1.0 | 0.0 | 25.3 | 10-3 |
| Hutcheson | 54.4 | 1.0 | 0.0 | 21.8 | 10-2 |
| Progeny P 5409RR | 54.4 | 1.3 | 0.0 | 37.3 | 9-30 |
| Progeny P 5706RR | 54.2 | 1.0 | 0.0 | 24.0 | 10-7 |
| Terral TV 54R28 | 54.1 | 1.0 | 0.0 | 25.5 | 10-1 |
| Croplan Genetics RC 5663RR | 53.8 | 1.0 | 0.0 | 21.0 | 10-1 |
| Dyna-Gro 32B57 | 53.6 | 1.0 | 0.0 | 22.5 | 10-1 |
| Progeny P 5218RR | 53.4 | 1.0 | 0.0 | 21.8 | 10-2 |
| MorSoy RT 5168 | 51.8 | 1.0 | 0.0 | 32.8 | 9-26 |
| MorSoy RT 5388N | 51.4 | 1.0 | 0.0 | 21.8 | 10-4 |
| Osage | 50.4 | 1.0 | 0.0 | 20.0 | 10-2 |
| Dyna-Gro 33X55 | 50.2 | 1.0 | 0.0 | 21.5 | 10-3 |
| Dyna-Gro 36N57 | 46.3 | 1.0 | 0.0 | 20.8 | 9-30 |

continued

TABLE 16. CONTINUED.

| Variety | Yield | Lodging score | Shattering score | Plant height | Maturity date |
|--------------------------|-------------|---------------|------------------|--------------|---------------|
| | - bu/acre - | | | - inches - | |
| Maturity Group VI | | | | | |
| Progeny P 6708RR | 57.1 | 1.0 | 0.0 | 24.3 | 10-11 |
| Asgrow AG 6702 | 55.5 | 1.0 | 0.0 | 31.5 | 10-14 |
| Progeny P 6208RR | 54.4 | 1.0 | 0.0 | 26.5 | 10-8 |
| Croplan Genetics RC 6298 | 51.1 | 1.0 | 0.0 | 21.8 | 10-8 |
| Desha | 51.1 | 1.0 | 0.0 | 24.3 | 10-10 |
| R01-2346 | 49.9 | 1.0 | 0.0 | 20.5 | 10-6 |
| Maturity Group VII | | | | | |
| Asgrow AG 7501 | 59.2 | 1.0 | 0.0 | 35.3 | 10-17 |
| Dyna-Gro V76N9RR | 58.5 | 1.3 | 0.0 | 34.5 | 10-19 |
| Benning | 56.9 | 1.0 | 0.0 | 28.5 | 10-12 |
| Asgrow AG 7502 | 56.4 | 1.3 | 0.0 | 37.5 | 10-20 |
| Croplan Genetics RT 7355 | 53.0 | 1.0 | 0.0 | 24.8 | 10-14 |
| Woodruff | 52.9 | 1.0 | 0.0 | 27.3 | 10-13 |
| Stonewall | 51.7 | 1.0 | 0.0 | 27.3 | 10-10 |
| Progeny P 7208RR | 51.5 | 1.0 | 0.0 | 25.8 | 10-12 |
| AGS 758 RR | 51.1 | 1.0 | 0.0 | 26.8 | 10-13 |
| AGS 747 RR | 46.7 | 1.0 | 0.0 | 27.8 | 10-15 |
| Maturity Group VIII | | | | | |
| Au 02-2814 | 55.9 | 1.0 | 0.0 | 30.2 | 10-25 |
| Pritchard RR | 50.1 | 1.3 | 0.0 | 36.3 | 10-21 |
| Trial mean | 53.7 | 1.0 | 0.0 | 26.7 | 10-7 |
| LSD(0.10) | 5.4 | | | | |
| CV (%) | 9.5 | | | | |

TABLE 17. PERFORMANCE OF SOYBEAN VARIETIES AT BREWTON, ALABAMA, THREE-YEAR SUMMARY, 2007-2009.

| Variety | Yield | | | Averages | | | |
|----------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group IV | | | | | | | |
| HALO 4:94 | 56.7 | | | 1.0 | 0.0 | 31.3 | 9-26 |
| HALO 4:65 | 52.9 | | | 1.0 | 0.0 | 29.0 | 9-24 |
| Croplan Genetics RC 4998RR | 49.5 | | | 1.0 | 0.0 | 37.5 | 9-27 |
| Progeny P 4949RR | 43.7 | | | 1.0 | 0.0 | 30.0 | 9-24 |
| Maturity Group V | | | | | | | |
| Ozark | 57.6 | 51.2 | 45.5 | 1.0 | 0.0 | 25.7 | 10-3 |
| Terral TV 55R15 | 60.2 | | | 1.0 | 0.0 | 28.8 | 10-3 |
| HALO 5:65 | 59.5 | | | 1.0 | 0.0 | 23.5 | 10-5 |
| HALO 5:25 | 57.6 | | | 1.0 | 0.0 | 18.3 | 10-3 |
| Progeny P 5622RR | 57.0 | | | 1.0 | 0.0 | 24.3 | 10-7 |
| Asgrow AG 5905 | 56.7 | | | 1.0 | 0.0 | 25.0 | 10-5 |
| Progeny P 5650RR | 56.5 | | | 1.0 | 0.0 | 25.0 | 10-7 |
| Progeny P 5319RR | 56.2 | | | 1.0 | 0.0 | 27.5 | 10-3 |
| Dyna-Gro 35F55 | 55.2 | | | 1.0 | 0.0 | 25.3 | 10-3 |
| Hutcheson | 54.4 | | | 1.0 | 0.0 | 21.8 | 10-2 |
| Progeny P 5409RR | 54.4 | | | 1.3 | 0.0 | 37.3 | 9-30 |
| Progeny P 5706RR | 54.2 | | | 1.0 | 0.0 | 24.0 | 10-7 |
| Terral TV 54R28 | 54.1 | | | 1.0 | 0.0 | 25.5 | 10-1 |
| Croplan Genetics RC 5663RR | 53.8 | | | 1.0 | 0.0 | 21.0 | 10-1 |
| Dyna-Gro 32B57 | 53.6 | | | 1.0 | 0.0 | 22.5 | 10-1 |
| Progeny P 5218RR | 53.4 | | | 1.0 | 0.0 | 21.8 | 10-2 |
| MorSoy RT 5168 | 51.8 | | | 1.0 | 0.0 | 32.8 | 9-26 |
| MorSoy RT 5388N | 51.4 | | | 1.0 | 0.0 | 21.8 | 10-4 |
| Osage | 50.4 | | | 1.0 | 0.0 | 20.0 | 10-2 |
| Dyna-Gro 33X55 | 50.2 | | | 1.0 | 0.0 | 21.5 | 10-3 |
| Dyna-Gro 36N57 | 46.3 | | | 1.0 | 0.0 | 20.8 | 9-30 |

continued

TABLE 17. CONTINUED.

| Variety | Yield | | | Averages | | | |
|--------------------------|---------------------|-------------|-------------|------------------|---------------------|-----------------|------------------|
| | 2009 | 2-yr avg | 3-yr avg | Lodging score | Shattering score | Plant height | Maturity date |
| | ----- bu/acre ----- | | | | | - inch - | |
| Maturity Group VI | | | | | | | |
| Croplan Genetics RC 6298 | 51.1 | 49.8 | | 1.0 | 0.0 | 28.4 | 10-6 |
| Progeny P 6708RR | 57.1 | | | 1.0 | 0.0 | 24.3 | 10-11 |
| Asgrow AG 6702 | 55.5 | | | 1.0 | 0.0 | 31.5 | 10-14 |
| Progeny P 6208RR | 54.4 | | | 1.0 | 0.0 | 26.5 | 10-8 |
| Desha | 51.1 | | | 1.0 | 0.0 | 24.3 | 10-10 |
| R01-2346 | 49.9 | | | 1.0 | 0.0 | 20.5 | 10-6 |
| Maturity Group VII | | | | | | | |
| Croplan Genetics RT 7355 | 53.0 | 47.3 | 46.3 | 1.0 | 0.0 | 27.6 | 10-15 |
| Stonewall | 51.7 | 46.3 | 44.8 | 1.0 | 0.0 | 29.7 | 10-14 |
| AGS 758 RR | 51.1 | 48.6 | 44.2 | 1.1 | 0.0 | 28.3 | 10-15 |
| Asgrow AG 7501 | 59.2 | | | 1.0 | 0.0 | 35.3 | 10-17 |
| Dyna-Gro V76N9RR | 58.5 | | | 1.3 | 0.0 | 34.5 | 10-19 |
| Benning | 56.9 | | | 1.0 | 0.0 | 28.5 | 10-12 |
| Asgrow AG 7502 | 56.4 | | | 1.3 | 0.0 | 37.5 | 10-20 |
| Woodruff | 52.9 | | | 1.0 | 0.0 | 27.3 | 10-13 |
| Progeny P 7208RR | 51.5 | | | 1.0 | 0.0 | 25.8 | 10-12 |
| AGS 747 RR | 46.7 | | | 1.0 | 0.0 | 27.8 | 10-15 |
| Maturity Group VIII | | | | | | | |
| Au 02-2814 | 55.9 | 47.7 | 50.5 | 1.1 | 0.0 | 34.4 | 10-24 |
| Pritchard RR | 50.1 | 44.6 | 46.0 | 1.2 | 0.0 | 37.3 | 10-23 |
| Trial mean | 53.7 | 47.9 | 46.2 | 1.0 | 0.0 | 27.2 | 10-7 |
| LSD(0.10) | 3.2 | 2.3 | 2.1 | | | | |
| CV (%) | 8.0 | 8.8 | 10.6 | | | | |

TABLE 18. CULTURAL PRACTICES FOR SOYBEAN VARIETY TESTS IN 2009.

| Location | Type of test | Date planted | Row width | Herbicide used | Fertilizer applied |
|-----------------|-------------------|--------------|-------------------|--------------------------------|--------------------|
| | | | <i>- inches -</i> | | |
| Belle Mina | Group IV | April 24 | 7 | Treflan, Valor | none recommended |
| | Group IV-V | June 1 | 30 | Treflan, Valor | none recommended |
| | Group VI-VII | June 2 | 30 | Treflan, Valor | none recommended |
| Crossville | Group IV | April 27 | 7 | Valor, FirstRate | none recommended |
| | Group IV-V | May 20 | 30 | Valor, Select | none recommended |
| | Group VI-VII | May 21 | 30 | Valor, Select | none recommended |
| Tallassee | Group IV | April 23 | 7 | None | none recommended |
| Shorter | Standard | June 1 | 36 | None | none recommended |
| Marion Junction | Standard (Sumter) | May 22 | 36 | None | none recommended |
| | Standard (Vaiden) | June 2 | 36 | None | none recommended |
| Brewton | Standard | June 3 | 36 | Dual | none recommended |
| Fairhope | Standard | June 9 | 38 | Ultra Blazer, Poast, Reflex | none recommended |

TABLE 19. SOIL TYPES FOR SOYBEAN TESTS, 2009.

| Location | Soil Type |
|-----------------|--------------------------------|
| Belle Mina | Emory silt loam |
| Crossville | Wynnvilleville fine sandy loam |
| Tallassee | Augusta silt loam |
| Shorter | Cowarts loamy sand |
| Marion Junction | Sumter clay (high pH soil) |
| Marion Junction | Vaiden clay |
| Fairhope | Malbis fine sandy loam |

TABLE 20. RAINFALL AT TEST LOCATIONS DURING GROWING SEASON, 2009.

| Month | Days | Belle Mina | Crossville | Shorter | Marion Junction | Brewton | Fairhope |
|--------------------|-------|------------|------------|---------|--------------------|---------|----------|
| ----- inches ----- | | | | | | | |
| May | 1-5 | 7.39 | 3.59 | 1.74 | 0.90 | 2.83 | 3.60 |
| | 6-10 | 1.65 | 2.79 | 5.90 | 1.11 | 0.77 | 0.00 |
| | 11-15 | 0.14 | 0.09 | 0.79 | 0.58 | 1.13 | 0.03 |
| | 16-20 | 1.03 | 0.36 | 1.78 | 0.45 | 0.85 | 1.48 |
| | 21-25 | 0.27 | 0.72 | 1.00 | 1.65 | 2.06 | 2.17 |
| | 26-31 | 0.59 | 1.34 | 1.48 | 1.00 | 0.99 | 0.02 |
| June | 1-5 | 0.23 | 0.50 | 2.32 | 0.60 | 3.12 | 2.25 |
| | 6-10 | 0.00 | 0.00 | 0.00 | 0.00 | 0.35 | 0.00 |
| | 11-15 | 0.76 | 0.45 | 1.05 | 0.55 | 0.00 | 0.00 |
| | 16-20 | 0.42 | 0.05 | 0.00 | 0.00 | 0.00 | 0.00 |
| | 21-25 | 0.00 | 0.05 | 0.45 | 0.00 | 0.23 | 0.11 |
| | 26-31 | 0.00 | 0.01 | 0.00 | 0.40 | 0.14 | 1.33 |
| July | 1-5 | 2.85 | 0.06 | 0.00 | 0.00 | 0.00 | 0.98 |
| | 6-10 | 0.05 | 1.31 | 1.07 | 1.15 | 1.09 | 0.72 |
| | 11-15 | 1.46 | 2.39 | 1.46 | 3.40 | 0.33 | 0.52 |
| | 16-20 | 0.13 | 0.00 | 0.38 | 0.65 | 2.33 | 0.19 |
| | 21-25 | 1.30 | 0.01 | 0.07 | 0.10 | 0.00 | 1.32 |
| | 26-31 | 0.51 | 2.70 | 0.92 | 1.26 | 2.35 | 1.45 |
| August | 1-5 | 1.86 | 0.95 | 2.13 | 4.21 | 1.38 | 1.48 |
| | 6-10 | 0.00 | 0.00 | 0.40 | 0.30 | 0.54 | 0.29 |
| | 11-15 | 0.39 | 0.04 | 0.70 | 0.90 | 2.01 | 0.14 |
| | 16-20 | 1.49 | 0.19 | 0.49 | 0.22 | 2.42 | 1.32 |
| | 21-25 | 0.32 | 0.69 | 2.11 | 0.17 | 0.42 | 1.77 |
| | 26-31 | 0.62 | 0.78 | 1.64 | 0.94 | 1.40 | 1.24 |
| September | 1-5 | 0.32 | 0.01 | 0.41 | 0.10 | 0.31 | 3.09 |
| | 6-10 | 0.40 | 0.52 | 0.07 | 1.53 | 1.50 | 1.66 |
| | 11-15 | 1.33 | 0.17 | 3.84 | 1.80 | 1.77 | 2.56 |
| | 16-20 | 2.02 | 3.63 | 1.47 | 1.52 | 0.61 | 0.39 |
| | 21-25 | 1.26 | 1.34 | 0.71 | 0.45 | 1.33 | 0.42 |
| | 26-31 | 3.32 | 0.71 | 0.30 | 0.10 | 0.02 | 0.04 |
| October | 1-5 | 1.18 | 1.55 | 2.34 | 0.15 | 0.90 | 1.97 |
| | 6-10 | 2.12 | 0.60 | 0.49 | 0.20 | 1.04 | 0.99 |
| | 11-15 | 1.78 | 3.26 | 1.96 | 2.32 | 0.99 | 0.94 |
| | 16-20 | 0.22 | 0.35 | 0.69 | 0.20 | 0.33 | 1.70 |
| | 21-25 | 0.34 | 0.10 | 0.23 | 1.40 | 1.02 | 1.55 |
| | 26-31 | 1.86 | 1.21 | 1.73 | 1.29 | 2.30 | 0.52 |

TABLE 21. ENTRIES AND SOURCES OF SEED FOR SOYBEAN TESTS, 2009.

| Source | Entry |
|--|--|
| AG South Genetics, LLC Albany, Georgia | AGS brand varieties Prichard RR, Woodruff, Benning |
| Alabama Crop Imp. Assoc. Auburn, Alabama | Hutcheson, Stonewall |
| Auburn University Auburn, Alabama | Au 02-2814 |
| Cache River Valley Seed, LLC Cash, Arkansas | MorSoy brand varieties |
| Cullum Seeds Fisher, Arkansas | Armor brand varieties Delta King brand varieties |
| Croplan Genetics/Land O' Lakes Elkmont, Alabama | Croplan Genetics |
| Crop Production Services Leland, Mississippi | Dyna-Gro brand varieties |
| Monsanto St. Louis, Missouri | Asgrow AG brand varieties, Deltapine DP brand varieties |
| Progeny Ag Products Wynne, Arkansas | Progeny brand varieties |
| Schillinger Seed Inc. West Des Moines, Iowa | Schillinger brand varieties |
| Southern States Coop. Richmond, Virginia | SS RT & LL brand varieties |
| Syngenta/NK Brand Seed Laurinburg, North Carolina | NK S brand varieties |
| Terral Seed, Inc. Lake Providence, Louisiana | Terral TV brand varieties |
| UniSouth Genetics, Inc. Nashville, Tennessee | USG brand varieties Allen |
| University of Arkansas Fayetteville, Arkansas | UA 4805, R01-2346, Desha, Osage, Ozark |
| US Seeds by Hornbeck Seed Co. De Witt, Arkansas | HALO brand varieties |