Peanut Variety Tests
Chad B. Godsey and Wendal Vaughan
Department of Plant and Soil Sciences

2012 progress made possible through OPC and NPB support

- Performance of runner varieties depended on location but long-term averages indicate Red River Runner, GA-09B and Florida-07 are top yield performers in most locations.
- Tamnut OL06 and AT99-98-14 were the two commercially available Spanish varieties that consistently performed well at most locations over the last several years.
- Breeding lines ARSOK-V30B (Virginia) and ARSOK-R35 (runner) performed very well at most locations.

Variety Tests
All variety tests were conducted under an extensive pest management program. The objective was to prevent as much outside influence from pest pressures (weed, disease and insect) on yield and grade as possible. The interaction between variety and location was significant so the results were separated by location. Since the varieties and advanced lines response differed by location, growers may find the data for the county closest to their location to be the most useful in selecting a variety or varieties to grow. All test plots were planted using two 36-inch rows that were 25 feet long. Plots were seeded at a rate of 5 seeds/row foot (139,392 seeds/A). At planting, a liquid inoculant formulation was applied with the seed. Tests were conducted using randomized, complete block design with five replications. The entire plot was dug and then thrashed three to four days later. Peanuts were placed in a drier until moisture reached 10 percent. Total sound mature kernels (TSMK) was determined on a 200 g sample from each plot.

Interpreting Data
Details of establishment and management of each test are listed in footnotes below the tables. Least significant differences, or LSD, are listed at the bottom of all but the performance summary tables. Differences between varieties are significant only if they are equal to or greater than the LSD value. If a given variety out yields another variety by as much or more than the LSD value, then we are 95 percent sure the yield difference is real, with only a 5 percent probability the difference is due to chance alone. For example, if variety X is 500 lbs/A higher in yield than variety Y, then this difference is statistically significant if the LSD is 500 or less. If the LSD is 500 or greater, then we are less confident that variety X really is higher yielding than variety Y under the conditions of the test.

The coefficient of variation, or CV value, listed at the bottom of each table is used as a measure of the precision of the experiment. Lower CV values will generally relate to lower experimental error in the trial. Uncontrollable or immeasurable variations in soil fertility, soil drainage and other environmental factors contribute to greater experimental error and higher CV values.

Results reported here should be representative of what might occur throughout the state but would be most applicable under environmental and
management conditions similar to those of the tests. The relative yields of all peanut varieties are affected by crop management and by environmental factors including soil type, summer conditions, soil moisture conditions, diseases and insects.

2012 Caddo County Peanut Variety Trial

**Location:** Fort Cobb, Okla.

**Date Planted:** 5/15/2012

**Date Dug and Harvested:** 10/20/2012 and 11/25/2012

The trial was planted on May 15 into a strip-till seedbed. No significant foliar diseases were observed during the growing season.

Average yield for the runner test was 4,357 lbs/A with an average grade of 69 percent (Table 1). McCloud, Red River Runner and Florida-07 had a higher yield when compared to the other varieties.

For the Spanish varieties, average yield and grade were 3,630 lbs/A and 66% TSMK, respectively. No significant differences were detected between varieties.

Average yield and grade in the Virginia test were 4,469 lbs/A and 68% TSMK, respectively. Very little pod rot was observed. AT-07V had the highest yield at Fort Cobb.

Table 2 contains Caddo County yield and grade data for three years, along with a two- and three-year average.
Table 1. Peanut yields and grades from Caddo County variety tests in 2012.

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Yield (lbs/A)</th>
<th>Percent of Trial Average</th>
<th>Grade (% TSMK)</th>
<th>Revenue ($/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Runner¹</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>McCloud</td>
<td>5,264</td>
<td>121%</td>
<td>68</td>
<td>903</td>
</tr>
<tr>
<td>Red River Runner</td>
<td>4,828</td>
<td>111%</td>
<td>71</td>
<td>861</td>
</tr>
<tr>
<td>Florida-07</td>
<td>5,009</td>
<td>115%</td>
<td>68</td>
<td>849</td>
</tr>
<tr>
<td>FlavorRunner 458</td>
<td>4,601</td>
<td>106%</td>
<td>71</td>
<td>820</td>
</tr>
<tr>
<td>ARSOK-R35</td>
<td>4,501</td>
<td>103%</td>
<td>71</td>
<td>800</td>
</tr>
<tr>
<td>GA-09B</td>
<td>4,287</td>
<td>98%</td>
<td>72</td>
<td>770</td>
</tr>
<tr>
<td>Flo-Run 107</td>
<td>4,534</td>
<td>104%</td>
<td>64</td>
<td>727</td>
</tr>
<tr>
<td>Tamrun OL07</td>
<td>4,116</td>
<td>94%</td>
<td>69</td>
<td>710</td>
</tr>
<tr>
<td>ACI 149</td>
<td>4,211</td>
<td>97%</td>
<td>66</td>
<td>694</td>
</tr>
<tr>
<td>ACI-WT09-243</td>
<td>3,318</td>
<td>76%</td>
<td>71</td>
<td>592</td>
</tr>
<tr>
<td>ACI-WT09-240</td>
<td>3,256</td>
<td>75%</td>
<td>71</td>
<td>577</td>
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<tr>
<td><strong>Mean</strong></td>
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<td>69</td>
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<td><strong>CV</strong></td>
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<td>5</td>
<td></td>
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<td><strong>LSD 0.05</strong></td>
<td>781</td>
<td></td>
<td>4</td>
<td></td>
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<tr>
<td><strong>Spanish¹</strong></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT99-98-14</td>
<td>3,924</td>
<td>103%</td>
<td>67</td>
<td>655</td>
</tr>
<tr>
<td>ARSOK-S140-1OL</td>
<td>3,917</td>
<td>103%</td>
<td>64</td>
<td>626</td>
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<tr>
<td>Tamnut OL06</td>
<td>3,743</td>
<td>98%</td>
<td>66</td>
<td>618</td>
</tr>
<tr>
<td>OLIn</td>
<td>3,621</td>
<td>95%</td>
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<td><strong>Mean</strong></td>
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<td><strong>CV</strong></td>
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<td><strong>LSD 0.05</strong></td>
<td>ns³</td>
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<tr>
<td><strong>Virginia¹</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT-07V</td>
<td>5,598</td>
<td>125%</td>
<td>65</td>
<td>951</td>
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<tr>
<td>ARSOK-V30B⁴</td>
<td>4,792</td>
<td>107%</td>
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<td>867</td>
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<td>4,668</td>
<td>104%</td>
<td>67</td>
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<td>4,646</td>
<td>104%</td>
<td>65</td>
<td>794</td>
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<td>Jupiter</td>
<td>4,342</td>
<td>97%</td>
<td>68</td>
<td>765</td>
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<td>69</td>
<td>722</td>
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<tr>
<td>N0808101 JC</td>
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<td>81%</td>
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<tr>
<td><strong>Mean</strong></td>
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<td>68</td>
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<tr>
<td><strong>CV</strong></td>
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<tr>
<td><strong>LSD 0.05</strong></td>
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<td>2</td>
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</tr>
</tbody>
</table>

¹Market type.
²% TSMK = Percent total sound mature kernels.
³Not significantly different at a probability level of 5 percent.
⁴Seed limited to only one rep so varieties were excluded from statistical analysis.
Table 2. Peanut yields and grades from Caddo County variety tests in 2010, 2011 and 2012 and a two- and three-year average.

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
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<td>71</td>
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<td>71</td>
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<td>67</td>
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<td>69</td>
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<tr>
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<td>3,832</td>
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<td>58.7</td>
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<td>66</td>
<td>3,358</td>
<td>63</td>
<td>3,532</td>
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<td>OLin</td>
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<td>3,002</td>
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<td>542</td>
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<td></td>
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</tr>
<tr>
<td>Jupiter</td>
<td>3,599</td>
<td>62</td>
<td>4,048</td>
<td>63.2</td>
<td>4,342</td>
<td>68</td>
<td>4,195</td>
<td>65</td>
<td>3,996</td>
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<td>4,365</td>
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<td>758</td>
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<td>533</td>
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</tr>
</tbody>
</table>

1 Market type.
2 % TSMK = Percent total sound mature kernels.
3 Data was not available because variety was not included in given year.
4 Not significantly different at a probability level of 5 percent.
2012 Blaine/Custer County Peanut Variety Trial

Location: Weatherford, Okla.
Date Planted: 5/4/2012
Date Dug and Harvested: 10/11/2012 and 10/15/2012

The trial was planted on May 4 into a conventional till seedbed. No significant foliar diseases were observed during the growing season. Sclerotinia was observed in plots and yield potential was most likely reduced in some varieties. The Virginia test was not harvested for yield due to planting problems.

Average yield for the runner test was 4,020 lbs/A with an average grade of 73 percent (Table 3). ARSOK-R35, Red River Runner and Tamrun OL07 had a higher yield when compared to the other commercially available varieties. The grade of Red River Runner and ARSOK-R35 was excellent as well. ARSOK-R35 is a USDA-ARS breeding line from Stillwater.

For the Spanish varieties, average yield and grade were 4,970 lbs/A and 69% TSMK, respectively. ARSOK-S140-1OL was the top yielding variety in this test.

Table 4 contains Blaine/Custer County yield and grade data for three years, along with a two- and three-year average.

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**Table 3. Peanut yields and grades from Blaine/Custer County variety tests in 2012.**

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Yield (lbs/A)</th>
<th>Percent of Trial Average</th>
<th>Grade (% TSMK)²</th>
<th>Revenue ($/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Runner¹</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARSOK-R35</td>
<td>5,799</td>
<td>144%</td>
<td>78</td>
<td>1134</td>
</tr>
<tr>
<td>Red River Runner</td>
<td>5,343</td>
<td>133%</td>
<td>76</td>
<td>1013</td>
</tr>
<tr>
<td>Tamrun OL07</td>
<td>5,195</td>
<td>129%</td>
<td>72</td>
<td>942</td>
</tr>
<tr>
<td>GA-09B</td>
<td>4,588</td>
<td>114%</td>
<td>75</td>
<td>858</td>
</tr>
<tr>
<td>Flo-Run 107</td>
<td>4,080</td>
<td>101%</td>
<td>72</td>
<td>735</td>
</tr>
<tr>
<td>Florida-07</td>
<td>4,005</td>
<td>100%</td>
<td>71</td>
<td>707</td>
</tr>
<tr>
<td>ACI 149</td>
<td>3,618</td>
<td>90%</td>
<td>73</td>
<td>661</td>
</tr>
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<td>FlavorRunner 458</td>
<td>3,517</td>
<td>87%</td>
<td>69</td>
<td>605</td>
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<td>McCloud</td>
<td>3,052</td>
<td>76%</td>
<td>72</td>
<td>546</td>
</tr>
<tr>
<td>ACI-WT09-240</td>
<td>2,579</td>
<td>64%</td>
<td>73</td>
<td>471</td>
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<tr>
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<td>73</td>
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<tr>
<td>CV</td>
<td>13</td>
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</tr>
<tr>
<td>LSD 0.05</td>
<td>654</td>
<td></td>
<td>5.1</td>
<td></td>
</tr>
</tbody>
</table>

| **Spanish¹**          |               |                          |                |               |
| ARSOK-S140-1OL        | 5,361         | 112%                     | 70             | 930           |
| Tamrun OL06           | 4,992         | 104%                     | 67             | 836           |
| OLin                  | 4,675         | 98%                      | 68             | 792           |
| AT99-98-14            | 4,130         | 86%                      | 70             | 717           |
| Mean                  | 4,790         |                          | 69             |               |
| CV                    | 10            |                          | 2              |               |
| LSD 0.05              | 638           |                          | 2.0            |               |

¹ Market type.
² % TSMK = Percent total sound mature kernels.
Table 4. Peanut yields and grades from Blaine/Custer County variety tests in 2010, 2011 and 2012 and a two- and three-year average.

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
</tr>
</thead>
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<tr>
<td>Runner³</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Florida-07</td>
<td>6,552</td>
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<td>4,784</td>
<td>67</td>
<td>5,343</td>
<td>76</td>
<td>5,064</td>
<td>71</td>
<td>5,560</td>
<td>71</td>
</tr>
<tr>
<td>GA-09B</td>
<td>7,162</td>
<td>68</td>
<td>4,095</td>
<td>55</td>
<td>5,195</td>
<td>72</td>
<td>4,645</td>
<td>64</td>
<td>5,484</td>
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<tr>
<td>Red River Runner</td>
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<td>4,588</td>
<td>75</td>
<td>4,705</td>
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¹Market type.
²%TSMK = Percent total sound mature kernels.
³Data was not available because variety was not included in the trial.
⁴Not significantly different at a probability level of 5 percent.
2012 Beckham County Peanut Variety Trial
Location: Sayre, Okla.
Date Planted: 5/15/2012
Date Dug and Harvested: 10/11/2012 and 10/15/2012

The trial was planted on May 15 into a strip-till seedbed. No significant foliar diseases were observed during the growing season. The only yield-limiting disease observed in the plots was pod rot. Pod rot was severe in some of the Virginia varieties.

Average yield for the runner test was 6,019 lbs/A with an average grade of 73 percent (Table 5). No significant differences were observed between runner varieties and all yields were excellent.

For the Spanish varieties, average yield and grade were 5,203 lbs/A and 69% TSMK, respectively. No significant differences were observed between Spanish varieties; however, AT99-98-14 was at the top when considering revenue generated per acre.

Average yield and grade in the Virginia test was 5,312 lbs/A and 66% TSMK, respectively. Some pod rot was visible at harvest and ratings are provided in Table 5.

Table 6 includes yield and grade data for Beckham County in 2010, 2011 and 2012, along with a two- and three-year average.
Table 5. Peanut yields and grades from Beckham County variety tests in 2012.

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Pod Rot (% of plot)</th>
<th>Yield (lbs/A)</th>
<th>Percent of Trial Average</th>
<th>Grade (% TSMK)</th>
<th>Revenue ($/A)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Runner¹</strong></td>
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<td>107%</td>
<td>73</td>
<td>1,188</td>
</tr>
<tr>
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<td>6,394</td>
<td>106%</td>
<td>74</td>
<td>1,179</td>
</tr>
<tr>
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<td>0</td>
<td>6,265</td>
<td>104%</td>
<td>75</td>
<td>1,169</td>
</tr>
<tr>
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<td>0</td>
<td>6,130</td>
<td>102%</td>
<td>74</td>
<td>1,136</td>
</tr>
<tr>
<td>Flo-Run 107</td>
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<td>5,986</td>
<td>99%</td>
<td>75</td>
<td>1,115</td>
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<tr>
<td>ACI-WT09-243</td>
<td>0</td>
<td>5,844</td>
<td>97%</td>
<td>76</td>
<td>1,103</td>
</tr>
<tr>
<td>McCloud</td>
<td>0</td>
<td>5,924</td>
<td>98%</td>
<td>72</td>
<td>1,065</td>
</tr>
<tr>
<td>Tamrun OL07</td>
<td>0</td>
<td>5,939</td>
<td>99%</td>
<td>72</td>
<td>1,062</td>
</tr>
<tr>
<td>Red River Runner</td>
<td>0</td>
<td>5,572</td>
<td>93%</td>
<td>76</td>
<td>1,062</td>
</tr>
<tr>
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<td>0</td>
<td>5,590</td>
<td>93%</td>
<td>74</td>
<td>1,039</td>
</tr>
<tr>
<td>Florida-07</td>
<td>0</td>
<td>6,095</td>
<td>101%</td>
<td>65</td>
<td>991</td>
</tr>
<tr>
<td><strong>Mean</strong></td>
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<td>6,019</td>
<td></td>
<td>73</td>
<td></td>
</tr>
<tr>
<td><strong>CV</strong></td>
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<td>9</td>
<td></td>
<td>3.5</td>
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<td>ns³</td>
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<td><strong>Spanish¹</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AT99-98-14</td>
<td>0</td>
<td>5,812</td>
<td>112%</td>
<td>72</td>
<td>1,057</td>
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<tr>
<td>ARSOK-S140-1OL</td>
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<td>5,068</td>
<td>97%</td>
<td>69</td>
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<tr>
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<td>5,844</td>
<td>110%</td>
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<td>1,080</td>
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<tr>
<td>Jupiter</td>
<td>7</td>
<td>5,761</td>
<td>108%</td>
<td>66</td>
<td>996</td>
</tr>
<tr>
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<td>5,804</td>
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<td>64</td>
<td>974</td>
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</tbody>
</table>

¹ Market type.
² % TSMK = Percent total sound mature kernels.
³ Not significantly different at a probability level of 5 percent.
Table 6. Peanut yields and grades from Beckham County variety tests in 2010, 2011 and 2012 and a two- and three-year average.

<table>
<thead>
<tr>
<th>Variety or line</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
<th>Yield (lbs/A)</th>
<th>Grade (% TSMK)</th>
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<td>5,554</td>
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</tbody>
</table>

\(^1\) Market type.
\(^2\) % TSMK = Percent total sound mature kernels.
\(^3\) Data was not available because variety was not included in the trial.
\(^4\) Not significantly different at a probability level of 5 percent.