Rotation crop response of Strongarm and Cadre applied to peanut in 1999.

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Plot size: 8 rows by 40 feet, 6 replications
Soil type: Amarillo fine sandy loam
    O.M.: 0.7%
    Sand: 73%
    Silt : 10%
    Clay : 17%
    pH : 7.6
    CEC: 10.1
Crop varieties: Cotton – PM 2326RR
    Corn – Pioneer 3162
    Sorghum – DK 41Y
Planting date: Sorghum – May 09
    Corn – May 16
    Cotton – May 16
Harvest date: Sorghum – September 8
    Corn – September 20
    Cotton – October 11
Irrigation: LEPA – season total 23.25 inches

Herbicide applications of Strongarm at 0.45 oz/A (1X) and 0.90 oz/A (2X), Cadre at 1.44 oz/A (1X) and 2.88 oz/A (2X), and numerous combinations of rates were made to peanut in 1999. In 2000, cotton, corn, and sorghum were planted to determine injury caused by carryover from the previous years’ application. Strongarm carryover from the 1X or 2X rates did not affect cotton or sorghum growth throughout the season. Corn injury was observed following Strongarm at the 2X rate. Cadre at the 1X and 2X rates injured cotton and sorghum throughout the season. Corn was injured following Cadre at 2X. Cotton yields were not affected by Strongarm residues when compared to the untreated. Cotton yields were reduced by Cadre residues at both rates.
<table>
<thead>
<tr>
<th>Treatment Name</th>
<th>Rate oz/A</th>
<th>Application Method</th>
<th>Cotton Injury July 26</th>
<th>Corn Injury July 26</th>
<th>Sorghum Injury July 26</th>
<th>Cotton Yield Oct. 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Strongarm</td>
<td>0.45</td>
<td>PE</td>
<td>0 d</td>
<td>0 d</td>
<td>0 d</td>
<td>1040 a</td>
</tr>
<tr>
<td>Strongarm</td>
<td>0.90</td>
<td>PE</td>
<td>2 e</td>
<td>22 bc</td>
<td>7 d</td>
<td>900 ab</td>
</tr>
<tr>
<td>Cadre</td>
<td>1.44</td>
<td>PT</td>
<td>32 cd</td>
<td>13 cd</td>
<td>62 a</td>
<td>760 bc</td>
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<tr>
<td>Cadre</td>
<td>2.88</td>
<td>PT</td>
<td>60 a</td>
<td>30 ab</td>
<td>900 ab</td>
<td>580 cd</td>
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<tr>
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<td>23 abc</td>
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<tr>
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<td>38 bc</td>
<td>23 abc</td>
<td>27 b</td>
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<tr>
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<td>38 a</td>
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<td>550 d</td>
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<tr>
<td>Cadre</td>
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<td>PT</td>
<td>0 d</td>
<td>0 d</td>
<td>980 a</td>
<td></td>
</tr>
</tbody>
</table>

* All treatments received a preplant incorporated application of Sonalan 1 qt/A in 1999.

** Roundup was applied for weed control.

*** Means followed by the same letter are not different at the 5% level of probability.