Table 2. Effect of some slow and fast release N fertilizers on some growth characters in Spring, Summer, and Autumn growth cycles of Keitt and Figri Kelan mango trees during 2004 and 2005 seasons

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Keitt</th>
<th>Figri Kelan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shoot length (cm)</td>
<td>No of leaves/shoot</td>
</tr>
<tr>
<td>SCU</td>
<td>18.00</td>
<td>20.00</td>
</tr>
<tr>
<td>PCU</td>
<td>16.00</td>
<td>17.00</td>
</tr>
<tr>
<td>ENC</td>
<td>13.00</td>
<td>16.00</td>
</tr>
<tr>
<td>AN</td>
<td>12.00</td>
<td>13.00</td>
</tr>
<tr>
<td>New L.S.D at 5%</td>
<td>0.90</td>
<td>1.10</td>
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</table>

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Keitt</th>
<th>Figri Kelan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Shoot length (cm)</td>
<td>No of leaves/shoot</td>
</tr>
<tr>
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<td>11.60</td>
<td>11.90</td>
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<td>PCU</td>
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<td>11.45</td>
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<tr>
<td>ENC</td>
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<td>11.10</td>
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<td>9.85</td>
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Table 2. Cont.

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<th>Autumn growth cycle</th>
<th>Autumn growth cycle</th>
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<td>No of leaves/shoot</td>
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<td>16.11</td>
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<td>New L.S.D at 5%</td>
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<td>1.23</td>
</tr>
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</table>

SCU: Sulphur-coated urea; PCU: Phosphorus-coated urea; ENC: Enciabene; AN: Ammonium nitrate.
Table 3. Effect of some slow and fast release N fertilizers on the percentages of N, P, and K in leaves of Keitt and Figri Kelan mango trees during 2004 and 2005 seasons

<table>
<thead>
<tr>
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<tbody>
<tr>
<td></td>
<td>N%</td>
<td>P%</td>
<td>K%</td>
<td>N%</td>
<td>P%</td>
<td>K%</td>
<td>N%</td>
<td>P%</td>
<td>K%</td>
<td>N%</td>
<td>P%</td>
</tr>
<tr>
<td>SCU</td>
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<td>1.71</td>
<td>1.80</td>
<td>0.32</td>
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<td>1.37</td>
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<tr>
<td>PCU</td>
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<td>1.79</td>
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<td>0.27</td>
<td>1.31</td>
<td>1.30</td>
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<tr>
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<td>1.41</td>
<td>1.37</td>
<td>0.25</td>
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<td>1.20</td>
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<tr>
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<td>1.42</td>
<td>0.36</td>
<td>0.34</td>
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<td>1.30</td>
<td>1.22</td>
<td>0.35</td>
<td>0.34</td>
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<td>0.04</td>
<td>0.06</td>
<td>0.02</td>
<td>0.03</td>
<td>0.04</td>
<td>0.05</td>
<td>0.06</td>
<td>0.07</td>
<td>0.02</td>
<td>0.03</td>
<td>0.06</td>
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SCU: Sulphur-coated urea; PCU: Phosphorus-coated urea; ENC: Encriabene; AN: Ammonium nitrate.
Table 4. Effect of some slow and fast release N fertilizers on date of first bloom, No of panicles/tree, fruit retention % and yield/tree of Keitt and Figri Kelan mango trees during 2004 and 2005 seasons

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Keitt</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>First bloom date</td>
<td>No of panicles/tree</td>
<td>Fruit retention %</td>
<td>Yield/tree (Kg)</td>
<td></td>
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<tr>
<td>SCU</td>
<td>1st week of Feb.</td>
<td>1st week of Feb.</td>
<td>120.0</td>
<td>200.0</td>
<td>0.75</td>
<td>0.82</td>
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<td>2nd week of Feb.</td>
<td>2nd week of Feb.</td>
<td>115.0</td>
<td>185.0</td>
<td>0.60</td>
<td>0.70</td>
</tr>
<tr>
<td>ENC</td>
<td>2nd week of Feb.</td>
<td>2nd week of Feb.</td>
<td>100.0</td>
<td>170.0</td>
<td>0.52</td>
<td>0.60</td>
</tr>
<tr>
<td>AN</td>
<td>3rd week of Feb.</td>
<td>3rd week of Feb.</td>
<td>90.0</td>
<td>145.0</td>
<td>0.40</td>
<td>0.42</td>
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<tr>
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<td>—</td>
<td>—</td>
<td>8.0</td>
<td>10.0</td>
<td>0.07</td>
<td>0.08</td>
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Table 4. Cont.

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<th>Fertilizers</th>
<th>First bloom date</th>
<th>No of panicles/tree</th>
<th>Fruit retention %</th>
<th>Yield/tree (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCU</td>
<td>1st week of Feb.</td>
<td>2nd week of Feb.</td>
<td>200.0</td>
<td>290.0</td>
</tr>
<tr>
<td>PCU</td>
<td>2nd week of Feb.</td>
<td>3rd week of Feb.</td>
<td>193.0</td>
<td>250.0</td>
</tr>
<tr>
<td>ENC</td>
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<td>3rd week of Feb.</td>
<td>187.0</td>
<td>235.0</td>
</tr>
<tr>
<td>AN</td>
<td>3rd week of Feb.</td>
<td>4th week of Feb.</td>
<td>180.0</td>
<td>200.0</td>
</tr>
<tr>
<td>New L.S.D at 5%</td>
<td>—</td>
<td>—</td>
<td>6.0</td>
<td>11.0</td>
</tr>
</tbody>
</table>

SCU: Sulphur-coated urea; PCU: Phosphorus-coated urea; ENC: Enciabene; AN: Ammonium nitrate.
Table 5. Effect of some slow and fast release N fertilizers on some physical fruit characters of Keitt and Figri Kelan mango trees during 2004 and 2005 seasons

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Keitt</th>
<th>Figri Kelan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fruit weight (g)</td>
<td>Fruit width (cm)</td>
</tr>
<tr>
<td>SCU</td>
<td>400.13</td>
<td>453.76</td>
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<td>PCU</td>
<td>399.00</td>
<td>431.70</td>
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<td>ENC</td>
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<td>416.40</td>
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<tr>
<td>AN</td>
<td>340.00</td>
<td>408.00</td>
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<td>New L.S.D at 5%</td>
<td>9.10</td>
<td>7.10</td>
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</table>

SCU: Sulphur-coated urea; PCU: Phosphorus-coated urea; ENC: Enciabene; AN: Ammonium nitrate.
Table 6. Effect of some slow release N fertilizers on some chemical fruit characters of Keitt and Figri Kelan mango trees during 2004 and 2005 seasons

<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Keitt</th>
<th>Figri Kelan</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T.S.S %</td>
<td>Total acidity %</td>
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<tr>
<td>SCU</td>
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<td>PCU</td>
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<td>15.20</td>
</tr>
<tr>
<td>ENC</td>
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<td>15.00</td>
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<td>14.80</td>
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<td>New L.S.D at 5%</td>
<td>0.08</td>
<td>0.10</td>
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<table>
<thead>
<tr>
<th>Fertilizers</th>
<th>Reducing sugars %</th>
<th>Sucrose %</th>
<th>Ascorbic acid (mg/100 g pulp)</th>
<th>Reducing sugars %</th>
<th>Sucrose %</th>
<th>Ascorbic acid (mg/100 g pulp)</th>
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<tbody>
<tr>
<td>SCU</td>
<td>5.82</td>
<td>5.62</td>
<td>5.98</td>
<td>6.38</td>
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<td>PCU</td>
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<td>5.79</td>
<td>6.19</td>
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<td>6.19</td>
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<td>21.45</td>
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<td>5.10</td>
<td>5.79</td>
<td>6.25</td>
<td>20.80</td>
<td>21.00</td>
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<tr>
<td>New L.S.D at 5%</td>
<td>0.10</td>
<td>0.07</td>
<td>NS</td>
<td>NS</td>
<td>0.20</td>
<td>0.30</td>
</tr>
</tbody>
</table>

SCU: Sulphur-coated urea; PCU: Phosphorus-coated urea; ENC: Enciabene; AN: Ammonium nitrate.
جدول بحث د. سناء
Table 1. Effect of some chemical material and germination media on the germination period, germination percentage and period to reaching grafting size of *Casimiroa* seedlings during (2002/3 and 2003/4, seasons)

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<tr>
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<td>73.7</td>
<td>229</td>
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(First season)

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(Second season)

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<td>242</td>
<td>26.1</td>
<td>62.4</td>
<td>239.5</td>
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<td>25.8</td>
<td>70.1</td>
<td>232.6</td>
<td>23.6</td>
<td>74.8</td>
<td>224.6</td>
<td>25.9</td>
<td>63.8</td>
<td>239.8</td>
<td>25.0</td>
<td>64.8</td>
<td>232.4</td>
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New L.S.D at 0.05

<table>
<thead>
<tr>
<th></th>
<th>Germ, period</th>
<th>Germ %</th>
<th>Days for grafting time</th>
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<td>(first season)</td>
<td>(second season)</td>
<td>(first season)</td>
</tr>
<tr>
<td>Media</td>
<td>2.13</td>
<td>2.42</td>
<td>3.01</td>
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<tr>
<td>TXM</td>
<td>5.71</td>
<td>4.86</td>
<td>6.21</td>
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Table 2. Effect of growing media and certain inorganic treatments on stem height and stem diameter of *Casimiroa* seedlings during (2002/3 and 2003/4, seasons)

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Media</th>
<th>Stem height (first season)</th>
<th>Stem diameter (first season)</th>
<th>Stem height (second season)</th>
<th>Stem diameter (second season)</th>
<th>Average Stem height</th>
<th>Average Stem diameter</th>
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<tbody>
<tr>
<td></td>
<td>Peat + clay</td>
<td>0.1</td>
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<td>39.4</td>
<td>36.0</td>
<td>40.2</td>
<td>38.7</td>
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<td>Peat + Sand</td>
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<td>55.1</td>
<td>47.1</td>
<td>55.0</td>
<td>52.8</td>
</tr>
<tr>
<td></td>
<td>Sand + clay</td>
<td>0.1</td>
<td>52.4</td>
<td>51.6</td>
<td>46.2</td>
<td>50.3</td>
<td>50.1</td>
</tr>
<tr>
<td></td>
<td>Peat + Sand + clay</td>
<td>0.1</td>
<td>52.3</td>
<td>51.5</td>
<td>46.0</td>
<td>50.1</td>
<td>49.9</td>
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<tr>
<td></td>
<td>Control</td>
<td>0.1</td>
<td>47.6</td>
<td>47.8</td>
<td>40.3</td>
<td>47.8</td>
<td>45.9</td>
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<tr>
<td>MgSO₄ 5%</td>
<td>Average</td>
<td>0.1</td>
<td>49.1</td>
<td>49.1</td>
<td>43.1</td>
<td>48.7</td>
<td>40.0</td>
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<tr>
<td>KNO₃ 1%</td>
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<td></td>
<td></td>
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<td></td>
</tr>
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<td>KHPO₄ 1%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dormex 2%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Average</td>
<td></td>
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New L.S.D at 0.05

<table>
<thead>
<tr>
<th>Treatments</th>
<th>Stem height (first season)</th>
<th>Stem diameter (first season)</th>
<th>Stem height (second season)</th>
<th>Stem diameter (second season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
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<td>2.14</td>
<td>N.S</td>
<td>N.S</td>
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<tr>
<td>TXM</td>
<td>4.13</td>
<td>4.22</td>
<td>N.S</td>
<td>N.S</td>
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</tbody>
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Table 3. Effect of growing media and certain inorganic treatments on number of branches and number of leaves per *Casimiroa* seedling during (2002/3 and 2003/4, seasons)

<table>
<thead>
<tr>
<th>Media</th>
<th>Peat + clay</th>
<th>Peat + Sand</th>
<th>Sand + clay</th>
<th>Peat + sand + clay</th>
<th>Average</th>
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</thead>
<tbody>
<tr>
<td>Treatments</td>
<td>No. of branches</td>
<td>No. of leaves</td>
<td>No. of branches</td>
<td>No. of leaves</td>
<td>No. of branches</td>
</tr>
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<td><strong>(First season)</strong></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>1.0</td>
<td>6.1</td>
<td>1.0</td>
<td>7.2</td>
<td>1.0</td>
</tr>
<tr>
<td>MgSO₄ 5%</td>
<td>1.1</td>
<td>11.0</td>
<td>1.2</td>
<td>12.0</td>
<td>1.0</td>
</tr>
<tr>
<td>KNO₃ 1%</td>
<td>1.0</td>
<td>9.0</td>
<td>1.0</td>
<td>9.4</td>
<td>1.0</td>
</tr>
<tr>
<td>KHPO₄ 1%</td>
<td>1.0</td>
<td>9.0</td>
<td>1.0</td>
<td>9.0</td>
<td>1.0</td>
</tr>
<tr>
<td>Dormex 2%</td>
<td>3.0</td>
<td>11.1</td>
<td>2.0</td>
<td>12.0</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td>1.42</td>
<td>9.24</td>
<td>1.24</td>
<td>9.92</td>
<td>1.20</td>
</tr>
<tr>
<td><strong>(Second season)</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control</td>
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<td>6.0</td>
<td>1.0</td>
<td>7.0</td>
<td>1.0</td>
</tr>
<tr>
<td>MgSO₄ 5%</td>
<td>1.0</td>
<td>10.0</td>
<td>1.1</td>
<td>12.1</td>
<td>1.0</td>
</tr>
<tr>
<td>KNO₃ 1%</td>
<td>1.0</td>
<td>8.0</td>
<td>1.0</td>
<td>9.3</td>
<td>1.0</td>
</tr>
<tr>
<td>KHPO₄ 1%</td>
<td>1.0</td>
<td>8.1</td>
<td>1.0</td>
<td>9.1</td>
<td>1.0</td>
</tr>
<tr>
<td>Dormex 2%</td>
<td>2.1</td>
<td>10.0</td>
<td>2.0</td>
<td>12.4</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Average</strong></td>
<td>1.22</td>
<td>8.42</td>
<td>1.22</td>
<td>9.98</td>
<td>1.20</td>
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New L.S.D at 0.05

<table>
<thead>
<tr>
<th>Treatments</th>
<th>No. of branches / plant (first season)</th>
<th>No. of leaves / plant (first season)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Media</td>
<td></td>
<td></td>
</tr>
<tr>
<td>TxM</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Table 4. Effect of growing media and certain inorganic treatments on root length (cm) and number of roots per *Casimiroa* seedling/during (2002/3 and 2003/4, seasons).

<table>
<thead>
<tr>
<th>Media</th>
<th>Peat + clay</th>
<th>Peat + Sand</th>
<th>Sand + clay</th>
<th>Peat + sand + clay</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatments</td>
<td>Root length</td>
<td>No. of roots</td>
<td>Root length</td>
<td>No. of roots</td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>22.7</td>
<td>14.0</td>
<td>23.4</td>
<td>14.2</td>
<td>22.3</td>
</tr>
<tr>
<td>MgSo₄ 5 %</td>
<td>23.8</td>
<td>17.1</td>
<td>24.6</td>
<td>17.9</td>
<td>23.5</td>
</tr>
<tr>
<td>KNO₃ 1 %</td>
<td>23.1</td>
<td>16.2</td>
<td>23.7</td>
<td>17.0</td>
<td>23.0</td>
</tr>
<tr>
<td>KHPO₄ 1 %</td>
<td>23.2</td>
<td>16.5</td>
<td>23.8</td>
<td>17.0</td>
<td>23.4</td>
</tr>
<tr>
<td>Dormex 2 %</td>
<td>23.4</td>
<td>18.6</td>
<td>24.2</td>
<td>19.4</td>
<td>23.5</td>
</tr>
<tr>
<td>Average</td>
<td>23.2</td>
<td>16.5</td>
<td>23.9</td>
<td>17.1</td>
<td>23.2</td>
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</tbody>
</table>

(First season)

<table>
<thead>
<tr>
<th>Media</th>
<th>Peat + clay</th>
<th>Peat + Sand</th>
<th>Sand + clay</th>
<th>Peat + sand + clay</th>
<th>Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Treatments</td>
<td>Root length</td>
<td>No. of roots</td>
<td>Root length</td>
<td>No. of roots</td>
<td></td>
</tr>
<tr>
<td>Control</td>
<td>22.6</td>
<td>14.2</td>
<td>23.5</td>
<td>14.1</td>
<td>22.2</td>
</tr>
<tr>
<td>MgSo₄ 5 %</td>
<td>22.9</td>
<td>18.1</td>
<td>24.8</td>
<td>18.0</td>
<td>23.4</td>
</tr>
<tr>
<td>KNO₃ 1 %</td>
<td>22.0</td>
<td>17.5</td>
<td>24.0</td>
<td>17.2</td>
<td>22.6</td>
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<tr>
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<td>22.1</td>
<td>17.5</td>
<td>24.1</td>
<td>17.5</td>
<td>22.6</td>
</tr>
<tr>
<td>Dormex 2 %</td>
<td>22.7</td>
<td>19.0</td>
<td>24.2</td>
<td>19.0</td>
<td>23.1</td>
</tr>
<tr>
<td>Average</td>
<td>22.5</td>
<td>17.3</td>
<td>24.1</td>
<td>17.2</td>
<td>22.8</td>
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</table>

(Second season)

New L.S.D at 0.05 Root length (cm) | No. of Roots/seedling

<table>
<thead>
<tr>
<th>Treatments</th>
<th>(first season)</th>
<th>(second season)</th>
<th>(first season)</th>
<th>(second season)</th>
</tr>
</thead>
<tbody>
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<td>Media</td>
<td>1.78</td>
<td>1.66</td>
<td>2.26</td>
<td>2.37</td>
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<tr>
<td>TXM</td>
<td>2.52</td>
<td>2.39</td>
<td>3.21</td>
<td>3.18</td>
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Table 5. Effect of grafting method and scion source on percentage of success and scion growth of *Casimiroa* transplants during (2002/3 and 2003/4, seasons)

<table>
<thead>
<tr>
<th>Method of grafting and Scion source</th>
<th>Success %</th>
<th>Scion/ bud emergency period</th>
<th>Average No. of Leaves/graft</th>
<th>Scion Length (cm)</th>
<th>Scion Diameter (cm)</th>
<th>Av. Leaf area of scion (cm)$^2$</th>
<th>Av. No. of Shoots per graft</th>
</tr>
</thead>
<tbody>
<tr>
<td>I- Shield Budding</td>
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</tr>
<tr>
<td>I. 1 - Soft wood</td>
<td>69.2</td>
<td>24.0</td>
<td>4.5</td>
<td>26.5</td>
<td>0.4</td>
<td>38.28</td>
<td>2.0</td>
</tr>
<tr>
<td>I. 2 - Hard wood</td>
<td>52.7</td>
<td>28.5</td>
<td>3.2</td>
<td>22.4</td>
<td>0.4</td>
<td>38.16</td>
<td>2.0</td>
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<tr>
<td>II- Cleft grafting</td>
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<td></td>
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<td></td>
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<tr>
<td>II. 1 - Soft wood</td>
<td>54.8</td>
<td>26.4</td>
<td>6.0</td>
<td>25.6</td>
<td>0.5</td>
<td>36.29</td>
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<td>32.0</td>
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<td>0.6</td>
<td>32.16</td>
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<td>New L.S.D at 0.05</td>
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<td>N.S</td>
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<tr>
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<td>Soft wood</td>
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<td>Soft wood</td>
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<td>28.3</td>
<td>6.6</td>
<td>27.1</td>
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<td>N.S</td>
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