2011 Cucumbers on Plastic Fresh Market Budget

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And

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Echols Extension Co. Agent

Table 1: Yields and Prices for Double Cropped Cucumber on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Items</th>
<th>Best</th>
<th>Optimistic</th>
<th>Median</th>
<th>Pessimistic</th>
<th>Worst</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (cartons)</td>
<td>1200</td>
<td>1000</td>
<td>800</td>
<td>600</td>
<td>400</td>
</tr>
<tr>
<td>Price per carton</td>
<td>14.00</td>
<td>12.00</td>
<td>10.00</td>
<td>8.00</td>
<td>6.00</td>
</tr>
</tbody>
</table>

Table 2: Pre-Harvest Variable Costs of Double Cropped Cucumber on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Variable Cost Items</th>
<th>Unit</th>
<th>Quantity</th>
<th>Price</th>
<th>Total</th>
<th>Yours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Seed</td>
<td>Lb.</td>
<td>3.00</td>
<td>58.40</td>
<td>175</td>
<td></td>
</tr>
<tr>
<td>Fumigant</td>
<td>Gal.</td>
<td>70.00</td>
<td>4.00</td>
<td>280</td>
<td></td>
</tr>
<tr>
<td>Fertilizer</td>
<td>Cwt.</td>
<td>0.00</td>
<td>7.40</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Side-dressing</td>
<td>Gal.</td>
<td>200.00</td>
<td>1.50</td>
<td>300</td>
<td></td>
</tr>
<tr>
<td>Insecticide</td>
<td>Appl.</td>
<td>6.00</td>
<td>22.00</td>
<td>132</td>
<td></td>
</tr>
<tr>
<td>Fungicide</td>
<td>Appl.</td>
<td>6.00</td>
<td>53.00</td>
<td>318</td>
<td></td>
</tr>
<tr>
<td>Nematicide</td>
<td>Acre</td>
<td>0.00</td>
<td>33.60</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>Herbicide</td>
<td>Acre</td>
<td>1.00</td>
<td>23.50</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Plastic 1/</td>
<td>Roll</td>
<td>1.20</td>
<td>60.00</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>Plastic Removal</td>
<td>Acre</td>
<td>1.00</td>
<td>85.00</td>
<td>85</td>
<td></td>
</tr>
<tr>
<td>Machinery</td>
<td>Acre</td>
<td>1.00</td>
<td>30.00</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>Labor</td>
<td>Acre</td>
<td>1.00</td>
<td>47.00</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>Land rent</td>
<td>Acre</td>
<td>1.00</td>
<td>100.00</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Irrigation 2/</td>
<td>Acre</td>
<td>1.00</td>
<td>197.11</td>
<td>197</td>
<td></td>
</tr>
<tr>
<td>Interest on Operation Capital</td>
<td>$</td>
<td>1759.81</td>
<td>0.07</td>
<td>31</td>
<td></td>
</tr>
</tbody>
</table>

Pre-Harvest Variable Costs: 1,791

1/ - 50% of total cost of plastic since it is double cropping
2/ - This includes $145.20 for tubing.
Table 3: Harvesting and Marketing Costs of Double Cropped Cucumber on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Items</th>
<th>Unit</th>
<th>Quantity</th>
<th>Price</th>
<th>$Amt./Ac</th>
<th>Yr. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picking and hauling</td>
<td>Ctn.</td>
<td>800</td>
<td>1.50</td>
<td>1,200</td>
<td></td>
</tr>
<tr>
<td>Grading and packing</td>
<td>Ctn.</td>
<td>800</td>
<td>1.00</td>
<td>800</td>
<td></td>
</tr>
<tr>
<td>Container</td>
<td>Ctn.</td>
<td>800</td>
<td>1.30</td>
<td>1,040</td>
<td></td>
</tr>
<tr>
<td>Marketing</td>
<td>Ctn.</td>
<td>800</td>
<td>0.85</td>
<td>680</td>
<td></td>
</tr>
<tr>
<td>Total Harvest and Marketing</td>
<td></td>
<td></td>
<td></td>
<td>4.65</td>
<td>3,720</td>
</tr>
<tr>
<td>Total Variable Costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>5,511</strong></td>
</tr>
</tbody>
</table>

Table 4: Fixed Costs of Producing Double Cropped Cucumbers on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Items</th>
<th>Units</th>
<th>Quantity</th>
<th>Price</th>
<th>$Amt./Ac</th>
<th>Yr. Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Machinery 3/</td>
<td>Acre</td>
<td>0.50</td>
<td>2,150.40</td>
<td>1,075.20</td>
<td></td>
</tr>
<tr>
<td>Irrigation 4/</td>
<td>Acre</td>
<td>0.50</td>
<td>58.63</td>
<td>29.31</td>
<td></td>
</tr>
<tr>
<td>Overhead and Management</td>
<td>$</td>
<td>1,791</td>
<td>0.15</td>
<td></td>
<td>268.65</td>
</tr>
<tr>
<td>Total Fixed Cost ($)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>1,373.16</strong></td>
</tr>
<tr>
<td>Total budgeted cost per acre ($)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td><strong>6,884.16</strong></td>
</tr>
</tbody>
</table>

3/- 50% of total cost since it is double cropping/acre/year.
4/- 50% of total cost since it is double cropping/acre/year.

Table 5: Risk Rated Returns Over Total Costs for Double Cropped Cucumber on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Net return levels (TOP ROW);</th>
<th>Best</th>
<th>Optimistic</th>
<th>Expected</th>
<th>Pessimistic</th>
<th>Worst</th>
</tr>
</thead>
<tbody>
<tr>
<td>The chances of obtaining this level or more (MIDDLE ROW); and</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The chances of obtaining this level or less (BOTTOM ROW).</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Returns($)</td>
<td>3,966</td>
<td>3,003</td>
<td>2,041</td>
<td>1,078</td>
<td>-846</td>
</tr>
<tr>
<td>Chances</td>
<td>7%</td>
<td>16%</td>
<td>31%</td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td>Chances</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chances for Profit</td>
<td>71%</td>
<td><strong>Base Budgeted Net Revenue</strong></td>
<td>$1,078</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Table 6**: Break-Even (BE) Cost of Producing Double Cropped Cucumber on Plastic for Fresh Market in Georgia, 2011.

<table>
<thead>
<tr>
<th>Items</th>
<th>Cost</th>
<th>Yours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BE Pre-harvest variable cost per carton</td>
<td>2.24</td>
<td></td>
</tr>
<tr>
<td>BE Harvest &amp; marketing cost per carton</td>
<td>4.65</td>
<td></td>
</tr>
<tr>
<td>BE Fixed Outlays per carton</td>
<td>1.83</td>
<td></td>
</tr>
<tr>
<td>BE Total budgeted cost per carton</td>
<td>8.72</td>
<td></td>
</tr>
<tr>
<td>BE Yield per Acre (cartons)</td>
<td>688</td>
<td></td>
</tr>
</tbody>
</table>

**Acknowledgment**

This Project was funded by Georgia Commodity Commission for Vegetables Grant in 2009 for which the authors are indebted. We are equally thankful to the growers, agricultural equipment, chemical and fertilizer vendors who assisted us in data collection, review and insightful comments.