## BELL PEPPERS - ON PLASTIC - Drip Irrigation

### Estimated Costs and Returns per Acre

<table>
<thead>
<tr>
<th>UNIT</th>
<th>QUANTITY</th>
<th>PRICE OR COST/UNIT</th>
<th>TOTAL PER ACRE</th>
<th>YOUR FARM</th>
</tr>
</thead>
</table>

1. **Gross Receipts**
   - **BELL PEPPERS**
     - CRTN 1500
     - $22.00
     - $33,000.00
   - **Total Receipts:**
     - $33,000.00
     - $0.00

2. **Variable Costs**
   - **Seedlings**
     - EACH 14500.00
     - $0.175
     - $2,537.50
   - **Fertilizer**
     - 5-10-10 (Spread)
     - CWT 12.00
     - $16.25
     - $195.00
   - **5-0-0 Side Dressing (LIQ)**
     - GAL 60.00
     - $1.75
     - $105.00
   - **Lime (Prorated)**
     - TON 0.33
     - $45.00
     - $14.85
   - **Herbicides**
     - ACRE 1.00
     - $4.83
     - $4.83
   - **Insecticides**
     - ACRE 1.00
     - $42.10
     - $42.10
   - **Fungicides**
     - ACRE 1.00
     - $28.30
     - $28.30
   - **Nematicides**
     - ACRE 1.00
     - $1,680.00
     - $1,680.00
   - **Transplant Labor**
     - HRS 21.00
     - $9.00
     - $189.00
   - **Plastic Mulch - 60 Inch**
     - FT 7200.00
     - $0.03
     - $216.00
   - **Take Up Plastic**
     - ACRE 1.00
     - $100.00
     - $100.00
   - **Drip Tape & Accessories**
     - ACRE 1.00
     - $200.00
     - $200.00
   - **Irrigation, Machinery & Labor**
     - ACRE 1.00
     - $195.04
     - $195.04
   - **Harvest & Hauling**
     - CRTN 1500.00
     - $2.75
     - $4,125.00
   - **Grading & Packing**
     - CRTN 1500.00
     - $1.75
     - $2,625.00
   - **Marketing**
     - CRTN 1500.00
     - $0.75
     - $1,125.00
   - **Carton**
     - EACH 1500.00
     - $1.95
     - $2,925.00
   - **Tractor/Machinery**
     - ACRE 1.00
     - $75.45
     - $75.45
   - **Labor**
     - HRS 19.10
     - $9.50
     - $181.45
   - **Interest on Op. Cap.**
     - DOL $8,282.26
     - 7.0%
     - $577.76

   **Total Variable Costs:**
   - $16,978.63
   - $0.00

3. **Income Above Variable Costs:**
   - $16,021.37
   - $0.00

4. **Fixed Costs**
   - **Tractor/Machinery**
     - ACRE 1.00
     - $93.94
     - $93.94
   - **Irrigation**
     - ACRE 1.00
     - $96.63
     - $96.63

   **Total Fixed Costs:**
   - $190.57
   - $0.00

5. **Other Costs**
   - **Land Rent**
     - ACRE 1.00
     - $50.00
     - $50.00
   - **General Overhead**
     - DOL $16,978.63
     - 7.0%
     - $1,188.50

   **Total Other Costs:**
   - $1,238.50
   - $0.00

6. **Total Costs:**
   - $18,407.70
   - $0.00

7. **Net Returns to Risk and Management:**
   - $14,592.30
   - $0.00

### Break-even Yield

<table>
<thead>
<tr>
<th>Break-even Yield</th>
<th>Break-even Price per Carton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable Costs</td>
<td>417 CRTN</td>
</tr>
<tr>
<td>Total Costs</td>
<td>479 CRTN</td>
</tr>
</tbody>
</table>

* Please note: This budget is for planning purposes only.
** Based on improved production practices for commercial producers.
*** Harvest: 20% July, 40% August, and 40% September
**BELL PEPPERS - ON PLASTIC - DRIP IRRIGATION**

**PER ACRE MACHINERY AND LABOR REQUIREMENTS FOR BELL PEPPERS ON PLASTIC**

<table>
<thead>
<tr>
<th>MONTH</th>
<th>OPERATION</th>
<th>TIMES</th>
<th>LABOR</th>
<th>MACHINE</th>
<th>VARIABLE COSTS</th>
<th>FIXED COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4-BOTTOM FLIP PLOW</td>
<td>1.00</td>
<td>0.28</td>
<td>0.25</td>
<td>$3.43</td>
<td>$2.32</td>
</tr>
<tr>
<td>3</td>
<td>HEAVY DISK 14’</td>
<td>1.00</td>
<td>0.17</td>
<td>0.15</td>
<td>$3.17</td>
<td>$3.78</td>
</tr>
<tr>
<td>3</td>
<td>SUBSOILER-BEDDER 4-ROW</td>
<td>1.00</td>
<td>0.21</td>
<td>0.19</td>
<td>$3.64</td>
<td>$2.86</td>
</tr>
<tr>
<td>3</td>
<td>DISK W/ SPRAYER 16’</td>
<td>1.00</td>
<td>0.17</td>
<td>0.15</td>
<td>$2.40</td>
<td>$3.38</td>
</tr>
<tr>
<td>3</td>
<td>MULCH BEDDER-LAYER</td>
<td>1.00</td>
<td>0.57</td>
<td>0.52</td>
<td>$8.43</td>
<td>$9.72</td>
</tr>
<tr>
<td>4</td>
<td>TRANSPLANTER 2-ROW</td>
<td>1.00</td>
<td>2.52</td>
<td>2.29</td>
<td>$16.33</td>
<td>$23.29</td>
</tr>
<tr>
<td>5-6</td>
<td>CULTIVATOR 2-ROW</td>
<td>1.00</td>
<td>0.62</td>
<td>0.56</td>
<td>$3.86</td>
<td>$4.18</td>
</tr>
<tr>
<td>5&amp;6</td>
<td>PULL TYPE SPRAYER</td>
<td>4.00</td>
<td>0.79</td>
<td>0.72</td>
<td>$6.12</td>
<td>$10.28</td>
</tr>
<tr>
<td>4</td>
<td>TRUCK 1.5 TON</td>
<td>3.00</td>
<td>0.76</td>
<td>0.69</td>
<td>$5.01</td>
<td>$6.69</td>
</tr>
<tr>
<td>7,8&amp;9</td>
<td>FARM WAGON</td>
<td>10.00</td>
<td>1.65</td>
<td>1.50</td>
<td>$18.10</td>
<td>$21.40</td>
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</table>

**PER ACRE TOTALS FOR SELECTED OPERATIONS**

<table>
<thead>
<tr>
<th></th>
<th>TIMES</th>
<th>LABOR</th>
<th>MACHINE</th>
<th>VARIABLE COSTS</th>
<th>FIXED COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>8.49</td>
<td>7.70</td>
<td>4.96</td>
<td>$75.45</td>
<td>$93.94</td>
</tr>
</tbody>
</table>

**UNALLOCATED LABOR (HRS./AC.)**

|       | 10.61 |

Note: Twenty inches of water is applied using a 10 acre drip irrigation system. The variable cost includes provisions for the annual replacement of 62,228 feet of 0.38 gpm drip tape at $0.03 per foot and other items that are replaced annually. The fixed cost includes the well, a 36 gpm pump and other items do not have to be replaced annually.

**INCOME ABOVE VARIABLE COSTS AT Differing Yields and Prices**

<table>
<thead>
<tr>
<th>YIELD</th>
<th>PRICE PER CARTON (30 LBS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CRTN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$17.60</td>
</tr>
<tr>
<td>1200</td>
<td>$6,301.37</td>
</tr>
<tr>
<td>1350</td>
<td>$7,861.37</td>
</tr>
<tr>
<td>1500</td>
<td>$9,421.37</td>
</tr>
<tr>
<td>1650</td>
<td>$10,981.37</td>
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<tr>
<td>1800</td>
<td>$12,541.37</td>
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**CHEMICAL USE ASSUMPTIONS FOR BELL PEPPERS ON PLASTIC**

<table>
<thead>
<tr>
<th></th>
<th>UNIT</th>
<th>QUANTITY</th>
<th>PRICE OR TOTAL COST/UNIT PER ACRE MONTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>HERBICIDES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>trifluralin (Treflan EC)</td>
<td>PT</td>
<td>1.50</td>
<td>$3.22 $4.83 1X MAR</td>
</tr>
<tr>
<td>INSECTICIDES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>thiamethoxam (Actara)</td>
<td>OZ</td>
<td>4.00</td>
<td>$3.25 $13.01 1X MAY, 2X JUN</td>
</tr>
<tr>
<td>thiamethoxam (Coragen)</td>
<td>OZ</td>
<td>3.50</td>
<td>$6.16 $28.57 1X JUN</td>
</tr>
<tr>
<td>acephate (Orthene)</td>
<td>OZ</td>
<td>1.00</td>
<td>$0.52 $0.52 1X MAY, 1X JUN</td>
</tr>
<tr>
<td>FUNGICIDES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>chlorothalonil (Bravo)</td>
<td>PT</td>
<td>1.50</td>
<td>$5.56 $8.34 1X JUN</td>
</tr>
<tr>
<td>mancozeb (Manzate)</td>
<td>LB</td>
<td>2.40</td>
<td>$4.75 $11.40 2X MAY</td>
</tr>
<tr>
<td>cupric hydroxide (Kocide)</td>
<td>LB</td>
<td>2.00</td>
<td>$8.45 $16.90 2X MAY</td>
</tr>
<tr>
<td>NEMATICIDES</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>methyl bromide+chloropicrin (Bro-Mean)</td>
<td>CP</td>
<td>350.00</td>
<td>$4.80 $1,880.00 1X MAR</td>
</tr>
</tbody>
</table>

**TOTAL:**

$1,763.57

The above listed chemicals are examples and do not imply exclusive recommendations by Clemson University. The "Vegetable Crop Guidelines for the Southeastern US" must be consulted. Production assumptions provided by Richard Hassel, (843) 402-5394, rhassel@clemson.edu.