SAMPLE COSTS TO PRODUCE ARTICHOKEs IN MONTEREY COUNTY - 1981

By S. D. Mendivil and E. A. Yearly

YIELD: 7,185 pounds, 250 - 25 pound cartons and 935 pounds processing

HARVEST: September through May

<table>
<thead>
<tr>
<th>Operation</th>
<th>Tractor Used</th>
<th>Hours/Acre</th>
<th>Labor</th>
<th>Fuel &amp; Repairs</th>
<th>Contracts and Materials</th>
<th>Total/Acre</th>
</tr>
</thead>
<tbody>
<tr>
<td>CULTURAL</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cut Tops</td>
<td>WD 60 I</td>
<td>0.4</td>
<td>3.73</td>
<td>2.74</td>
<td></td>
<td>6.47</td>
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<tr>
<td>Top Cutter</td>
<td>CD 80 I</td>
<td>0.33</td>
<td>3.08</td>
<td>5.11</td>
<td></td>
<td>8.19</td>
</tr>
<tr>
<td>Rototill</td>
<td>WD-60 I</td>
<td>1.0</td>
<td>9.32</td>
<td>9.43</td>
<td></td>
<td>18.75</td>
</tr>
<tr>
<td>Subsoil</td>
<td>WD-135 I</td>
<td>0.5</td>
<td>4.66</td>
<td>10.77</td>
<td></td>
<td>15.43</td>
</tr>
<tr>
<td>Float - 2x</td>
<td>CD-60 I</td>
<td>0.5</td>
<td>4.66</td>
<td>6.61</td>
<td></td>
<td>11.28</td>
</tr>
<tr>
<td>Irrigate<em>5</em></td>
<td></td>
<td>12.0</td>
<td>97.80</td>
<td></td>
<td>1.75 Ac. Ft. @ 36.00 per acre ft. for power. 4.00 for booster pump Contract @ 7.25/ac. 500# 12-12-12 @ 54.00 and 266# N @ .44/1b. Materials 150.00/Ac.</td>
<td>257.52</td>
</tr>
<tr>
<td>Insect Control 14x/2</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
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<td></td>
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<tr>
<td>HOE &amp; AIR</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stumping 1/3</td>
<td></td>
<td>5.5</td>
<td>44.11</td>
<td></td>
<td></td>
<td>44.11</td>
</tr>
<tr>
<td>Rodent Control 4x</td>
<td></td>
<td>10.0</td>
<td>80.20</td>
<td></td>
<td>Materials @ 30.00/Ac.</td>
<td>110.20</td>
</tr>
<tr>
<td>Cultivate 9x</td>
<td>WD-60 II</td>
<td>4.0</td>
<td>36.44</td>
<td>25.40</td>
<td></td>
<td>61.84</td>
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<tr>
<td>Hoe &amp; Weed</td>
<td></td>
<td>16.0</td>
<td>128.32</td>
<td></td>
<td></td>
<td>128.32</td>
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<tr>
<td>Miscellaneous</td>
<td></td>
<td>5.0</td>
<td>43.23</td>
<td>12.70</td>
<td></td>
<td>55.93</td>
</tr>
<tr>
<td>Total Cultural and Material Costs</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>1,075.63</td>
</tr>
</tbody>
</table>

OVERHEAD

Business Costs: Office and Business Expense @ 15% of Cultural Costs 161.34
Taxes: Equipment, except tractors 5.00
Rent: 350.00/Acre - includes taxes 350.00

TOTAL OVERHEAD COSTS: 516.34

HARVEST

Pick and Pack: 55 hours (21.00 for fuel and repairs added) 465.31

TOTAL HARVEST COSTS 465.31

TOTAL CULTURAL, OVERHEAD AND HARVEST COSTS 2,087.28

ANNUAL COSTS

<table>
<thead>
<tr>
<th>Investment</th>
<th>Per Acre</th>
<th>Depreciation</th>
<th>Interest - 15%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Buildings</td>
<td>60.00</td>
<td>6.00</td>
<td>4.50</td>
</tr>
<tr>
<td>Irrigation System</td>
<td>300.00</td>
<td>30.00</td>
<td>22.50</td>
</tr>
<tr>
<td>Plants</td>
<td>600.00</td>
<td>60.00</td>
<td>45.00</td>
</tr>
<tr>
<td>Tractors</td>
<td>205.00</td>
<td>20.33</td>
<td>15.73</td>
</tr>
<tr>
<td>Equipment</td>
<td>200.00</td>
<td>20.00</td>
<td>15.00</td>
</tr>
<tr>
<td>Total</td>
<td>1,365.00</td>
<td>136.33</td>
<td>102.73</td>
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</tbody>
</table>

TOTAL COST PER ACRE 2,296.34

COST PER POUND @ 6,250 POUNDS PER ACRE, FRESH MARKET 47.37

PACKING COSTS

Artichokes: 25 lbs. @ 0.37/lb. UC Cooperative Extension 9.25
Pack, carton & sales charge 2.25

COST PER CARTON 11.50
Management has not been included as a cost of production in this study. It may be as much as 5% of the farm value of the crop.

1/ Labor costs per hour include fringe benefits paid by the farmer. Social security, workmen's compensation, unemployment, health plan, and paid holidays.

2/ Pesticides include methyl parathion, parathion, Supracide®, and Thiordan®. Zolone® and Guthion® are occasionally used.

3/ Stumping is the removal of old productive shoots, and is undertaken to vary the productive cycle.

### SAMPLE COSTS OF PRODUCTION AT VARYING YIELDS

<table>
<thead>
<tr>
<th>YIELD</th>
<th>Total Pounds</th>
<th>----</th>
<th>----</th>
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</tr>
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<tbody>
<tr>
<td>Pounds Fresh Market</td>
<td>6,470</td>
<td>7,185</td>
<td>7,905</td>
<td>8,625</td>
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</tr>
<tr>
<td>Cartons Per Acre</td>
<td>5,625</td>
<td>6,250</td>
<td>6,875</td>
<td>7,500</td>
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<tr>
<td>Pounds Processing</td>
<td>225</td>
<td>250</td>
<td>275</td>
<td>300</td>
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<tr>
<td></td>
<td>845</td>
<td>850</td>
<td>1,030</td>
<td>1,125</td>
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#### PRODUCTION COSTS

<p>| | | | | |</p>
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<tbody>
<tr>
<td></td>
<td>1,591.97</td>
<td>1,591.97</td>
<td>1,591.97</td>
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</table>

#### HARVEST COSTS

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<tbody>
<tr>
<td></td>
<td>417.19</td>
<td>465.31</td>
<td>531.43</td>
<td>561.55</td>
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</table>

#### ANNUAL COSTS

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<tbody>
<tr>
<td></td>
<td>239.06</td>
<td>239.06</td>
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#### TOTAL COST PER ACRE

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</thead>
<tbody>
<tr>
<td></td>
<td>2,248.22</td>
<td>2,296.34</td>
<td>2,344.46</td>
<td>2,392.58</td>
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</tbody>
</table>

#### COST PER POUND ARTICHOKE

<p>| | | | | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>.40</td>
<td>.37</td>
<td>.34</td>
<td>.32</td>
</tr>
</tbody>
</table>

#### PACKING AND SALES COST

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<tr>
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</thead>
<tbody>
<tr>
<td></td>
<td>2.25</td>
<td>2.25</td>
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</tbody>
</table>

#### COST PER CARTON (25 lbs.)

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</thead>
<tbody>
<tr>
<td></td>
<td>12.25</td>
<td>11.50</td>
<td>10.75</td>
<td>10.25</td>
</tr>
</tbody>
</table>

4/ Cost study considers the economics of fresh market artichokes only. Approximately 15% of total production will be sold as processing artichokes. Returns on artichokes from the processor should be considered on a per carton basis for final cost per carton.