WT-SI-73
watermelons
sample costs
and
production

University of California
Agricultural Extension Service
Imperial County
Court House, El Centro

Cost Data Sheet No. 5

UC Cooperative Extension
WATERMELONS--SAMPLE PRODUCTION COSTS

Mechanical operations at custom rates. Hand labor at $3.00 per hour ($2.40 plus Social Security, unemployment insurance, transportation, supervision and fringe benefits).

Yield - 10 tons per acre. 85-90 days to maturity.

<table>
<thead>
<tr>
<th>OPERATIONS</th>
<th>Custom Rate</th>
<th>MATERIALS</th>
<th>Cost</th>
<th>HAND LABOR</th>
<th>SAMPLE COSTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow or subsoil 10.00</td>
<td>Discount 3.50</td>
<td>Flood</td>
<td>water .75 ac ft</td>
<td>1.73</td>
<td>1</td>
</tr>
<tr>
<td>Border &amp; break</td>
<td>3.50</td>
<td>Fertilize</td>
<td>400# 11-18-0</td>
<td>24.00</td>
<td>3.50</td>
</tr>
<tr>
<td>Border disc</td>
<td>6.00</td>
<td>TOTAL LAND PREPARATION</td>
<td>6.00</td>
<td>$56.98</td>
<td></td>
</tr>
</tbody>
</table>

GROWING PERIOD

<table>
<thead>
<tr>
<th>Activity</th>
<th>Custom Rate</th>
<th>MATERIALS</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plant &amp; shape beds</td>
<td>3.00</td>
<td>Seed 2# @ 2.50</td>
<td>5.00</td>
</tr>
<tr>
<td>Petroleum mulch</td>
<td>3.50</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>Pollination</td>
<td>1.5 hives @ 10.00</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>Thin</td>
<td>5</td>
<td>15.00</td>
<td></td>
</tr>
<tr>
<td>Cultivate 2x</td>
<td>3.50</td>
<td>7.00</td>
<td></td>
</tr>
<tr>
<td>Fertilize-side-dress 2x</td>
<td>2.00</td>
<td>30.00</td>
<td></td>
</tr>
<tr>
<td>Weed 1x</td>
<td>200# N @ 15#</td>
<td>34.00</td>
<td></td>
</tr>
<tr>
<td>Irrigate 6x</td>
<td>Water 3 ac ft @ 2.30</td>
<td>6.90</td>
<td></td>
</tr>
<tr>
<td>Pest control 5x</td>
<td>Insecticides</td>
<td>40.00</td>
<td></td>
</tr>
<tr>
<td>Turn vines 2x</td>
<td>10</td>
<td>30.00</td>
<td></td>
</tr>
<tr>
<td>TOTAL GROWING PERIOD</td>
<td>$211.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>GROWING PERIOD &amp; LAND PREP. COSTS</td>
<td>$268.38</td>
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<td></td>
</tr>
</tbody>
</table>

Land Rent | 90.00 |
Cash Overhead - 10% of preharvest costs and land rent | 35.84 |
TOTAL PREHARVEST COSTS | $394.22 |

HARVEST

Pick, haul, selling commission, move vines $22.00 ton | $220.00 |
TOTAL ALL COSTS | $614.22 |

Cost per ton = $61.42

YIELDS

County average yields have been between 3 to 10 tons per acre. The Agricultural Commissioner's reports show seasonal average price per ton during the past five years varied from a low of $52.64 in 1972 to a high of $84.08 in 1970.

PLANTING DATES

Plantings to be capped are seeded from mid-December to February. Open melons are planted from February through mid-March.

VARIETIES

Improved Peacock is that most popular variety. It has a tough rind, which makes it an excellent shipper.

SOILS

Watermelons are best grown on non-saline, sandy loam or silt loam soils. Soil temperatures of 95 F are optimum for germination.
IRRIGATION

After planting, the first irrigation runs until the beds are completely subbed. Following emergence, water may be withheld until flowering.

FERTILIZERS

400 pounds of 11-48-0 are often applied before listing. Up to 200 pounds of nitrogen are later sidedressed in split applications. Irrigation costs include shovel work, pipe setting and grading.

PESTS AND DISEASES

Cutworms, aphids, spider mites, darkling ground beetles, leafhoppers, cabbage loopers, and leafminers are the most serious pests of watermelons. Watermelon wilt (fusarium), and root rot are the most serious diseases of watermelon. If you know the field has wilt, be sure to plant a resistant variety. For latest recommendations, consult your Farm Advisor.

HARVESTING

Use a knife to cut melons from the vines. Pulling may cause melons to crack open. Melons are picked on the basis of color change, thumping, and rind

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roughness. Color change is the most reliable. Avoid rubbing of melon fruit with hands during vine turning. Loss of natural protection on the fruit can increase sunburn. Cover exposed fruit during harvest to prevent sunburning.

SPECIAL PRACTICES

Use of black petroleum mulch is common on early fields. Normal cost is $18.00 - $20.00 per acre.

UC Cooperative Extension
Prepared by
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Staff
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