RIBIER OR CARDINAL/GRAPES - Sample Costs for a Mature Vineyard
Cost Analysis Worksheet, 1980

Based on a 120-acre unit, vines spaced at 8' x 12'. Labor @ $4.50 and $5.50 per hour total, tractor per hour cash costs $3.90, depreciation $2.10, interest $1.20. Yield of 450 120-pound lugs (69/ton), 5.20 tons shipped, 1.30 tons culls. Wages include Social Security, Workmen's Compensation, insurance, and all other fringe benefits.

<table>
<thead>
<tr>
<th>Sample Costs</th>
<th>My Costs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Per Acre</td>
<td>Per Lug</td>
</tr>
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</tr>
</tbody>
</table>

### Pre-Harvest Cash Costs:

- **Pruning:** 20c/vine, 450/acre $90.
- **Brush disposal:** all middles, contract 9.
- **Fertilizer:** 50 lbs. N @ 35c applied 18.
- **Mildew control:** 3 hrs. labor + 2½ hrs. tractor + materials @ $3.00 34.
- **Fruit management, disease control & materials** 98.
- **Herbicide** 30.
- **Irrigation preparation and weed control:** 4 hrs. labor + 4 hrs. tractor 38.
- **Irrigate:** 5 hrs. labor @ $5.50 28.
- **Water-power and/or district tax:** 4 ac. ft. @ $20.00 80.
- **Shoot fruit and leaf manipulation:** 80 hrs. labor 360.
- **Pruning:** 14 hrs. labor 63.
- **Spray materials & application $10/acre** 10.
- **Irrigation labor:** 8 hrs. labor + 2 hrs. tractor 46.
- **Irrigation materials, stakes, etc.** 50.
- **County taxes** 65.
- **Business & office costs, operating capital, insurance, etc.** 83.

**TOTAL PRE-HARVEST CASH COSTS** $1126. $2.50

### Depreciation:

- **Vines, stakes, trellis:** cost $5030, 25 yr. life $201.
- **Irrigation system:** $565, 20 yr. life 28.
- **Buildings and equipment, except tractor:** $433, 12 yr. life 36.
- **Tractor:** 8½ hrs. @ $2.10 18.

**TOTAL DEPRECIATION** $283. $63

### Interest on Investment at 11%:

- **Vines, stakes, trellis:** ½/2 cost $2515 $277.
- **Irrigation system:** ½/2 cost $283 31.
- **Buildings and equipment, except tractor:** ½ cost $216 24.
- **Tractor:** 8½ hrs. @ $1.20 10.
- **Land:** $2500/acre 385.

**TOTAL INTEREST ON INVESTMENT** $727. $1.62

**TOTAL PRE-HARVEST COST** $2136. $4.75

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Cost Per Lug of Packed Fruit

<table>
<thead>
<tr>
<th>HOUSE</th>
<th>PACKED</th>
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<tbody>
<tr>
<td>Pre-harvest cost</td>
<td>$4.75</td>
</tr>
<tr>
<td>Pick and haul</td>
<td>1.00</td>
</tr>
<tr>
<td>Packinghouse cost</td>
<td>2.20</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$7.95</strong></td>
</tr>
<tr>
<td><strong>NET CREDIT - CULLS @ $75/TON</strong></td>
<td>.29</td>
</tr>
<tr>
<td><strong>NET F.O.B. COSTS</strong></td>
<td>7.66</td>
</tr>
</tbody>
</table>

*Selling commission, Table Grapes Commission assessment, inspection and wrapping are not included.

Total F.O.B. Cost Per Lug at Varying Yields

<table>
<thead>
<tr>
<th>YIELD:</th>
<th>300</th>
<th>400</th>
<th>500</th>
<th>600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packed lugs</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>House packed</td>
<td>$10.03</td>
<td>$8.25</td>
<td>$7.18</td>
<td>$6.47</td>
</tr>
<tr>
<td>Field packed</td>
<td>$10.07</td>
<td>$8.29</td>
<td>$7.22</td>
<td>$6.51</td>
</tr>
</tbody>
</table>

ABOUT THIS SHEET

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. The series includes: Thompson Seedless for Raisins or Wine, Thompson Seedless for Table Use, Wine Varieties, Cordon Trained Spur-Pruned Table grapes, Emperor, Ribier or Cardinal. The input and cost data are to be used only as guides in determining the production costs for a specific vineyard and to help growers analyze costs and practices that would increase production efficiency. The figures shown are based on what are considered good management practices in many vineyards. They do not represent industry averages.

YIELD - Yield is the most important factor affecting costs per ton and profit per acre. The yield per acre used in this sample is average over a period of years for a typical, well-managed vineyard. Although this figure is higher than the industry average, some vineyards do better.

IRRIGATION - Sample costs for irrigation labor and water costs are based on a pumping system with pipeline. Labor costs per acre is affected by the number of irrigations, quantity applied, and size of head. Large heads of water may lower the labor costs. When all the water is from an irrigation district, the investment overhead costs of depreciation and interest on irrigation facilities are normally lower.

PEST AND DISEASE CONTROL - Dusting and spraying costs may vary considerably from year to year. Control measures required also vary between vineyards. The sample costs shown on this sheet are based on average conditions.