



Sample Costs
to Produce
THOMPSON
SEEDLESS
FOR
TABLE USE

in the San Joaquin Valley

~~1976~~
 1978

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

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THOMPSON SEEDLESS FOR TABLE USE - Sample Costs for a Mature Vineyard
Cost Analysis Worksheet, 1976/1977

Based on a 120-acre unit. Labor costs at ~~\$3.50~~ ^{3.10} and ~~\$4.00~~ ^{4.00} per hour total. Tractor per hour cash costs at ~~\$2.60~~ ^{2.88}, depreciation at ~~\$1.65~~ ^{1.82}, and interest at ~~\$.82~~ ^{1.00}. Wages include Social Security, Workmen's Compensation, insurance, and other fringe benefits. Yield is 522 23-pound lugs (87/ton); ~~with~~ 6 tons shipped and 2.5 tons culled.

| | Sample Costs | | My Costs | |
|---|------------------------|---------------|----------------|-------------|
| | Per Acre | Per Lug | Per Acre | Per Lug |
| Pre-Harvest Cash Costs: | | | | |
| Nematode treatment - every third year, | | | | |
| 42.00 | 14.00 | | | |
| Pruning: contract @ ^{25¢} 22¢/vine (^{45¢} 42¢/acre) | 94.38 | | 113.50 | |
| Brush disposal: all middles, contract | 6.00 | | 6.00 | |
| Tying | 27.00 | | 27.00 | |
| Fertilizer: 60 lbs. N @ 30¢ applied | 15.00 | | 18.00 | |
| Girdling ^{14 hrs labor} | 56.00 | | 56.00 | |
| Gibberellin spray - materials & application | 75.00 | | 75.00 | |
| Thinning: 41 hrs. labor | 135.30 | | 164.00 | |
| Mildew control: 2 1/2 hrs. labor | | | | |
| + 2 hrs tractor hrs. + materials @ ^{6.00} 5.00 | 21.50 | | 24.20 | |
| Pest management and materials | OK 55.00 | | 55.00 | |
| Irrigation preparation and weed control: | | | | |
| 4 hrs. labor + 4 tractor hrs. | 26.40 | | 32.40 | |
| Irrigate: 6 hrs. labor @ \$3.30 ^{5.00} | 19.80 | | 30.00 | |
| Water-power and/or district tax - 4 ac. ft. | | | | |
| @ \$10.00 ^{20.00} | 40.00 80.00 | | 50.00 | |
| Misc. labor: 8 hrs. labor + 2 tractor hrs. | 33.00 | | 40.20 | |
| Misc. materials, stakes, twine, etc. ^{+ 3.00} | 40 35.00 | | 40.00 | |
| County taxes | 50.00 | 60.00 | 60.00 | |
| Repairs, except tractor | 20 19.00 | | 20.00 | |
| Business and office costs, operating capital, insurance, etc. | 60.76 | | 50.48 | |
| TOTAL PRE-HARVEST CASH COSTS | \$ 734.14 | \$1.41 | \$91.78 | 1.71 |
| Depreciation: | | | | |
| Vines, stakes, trellis: cost \$2567, 30 yr. life | \$ 85.57 | | 100.27 | |
| Irrigation system: cost \$280, 20 yr. life | 14.00 | | 15.00 | |
| Buildings and equipment, except tractor: cost \$140, 12 yr. life | 11.67 | | 13.33 | |
| Tractor: 8 hrs hrs. @ \$1.65 ^{\$2.00} | 14.03 | | 16.00 | |
| TOTAL DEPRECIATION | \$ 125.27 | \$.24 | 144.60 | .28 |
| Interest on Investment @ 8%: | | | | |
| Vines, stakes, trellis: 1/2 cost \$1284 | \$ 102.72 | | 120.32 | |
| Irrigation system: 1/2 cost \$140 ^{\$150} | 11.20 | | 12.00 | |
| Buildings and equipment, except tractor: 1/2 cost \$70 ^{\$80} | 5.60 | | 6.40 | |
| Tractor: 8 hrs hrs. @ \$.82 ^{1.00} | 6.97 | | 8.00 | |
| Land: \$1500/acre ²⁰⁰⁰ | 120.00 | | 160.00 | |
| TOTAL INTEREST ON INVESTMENT | \$ 246.49 | \$.47 | 306.72 | .59 |
| TOTAL PRE-HARVEST COSTS | \$1105.90 | \$2.12 | 1343.10 | 2.57 |

Costs Per Lug of Packed Fruit

| | House Packed | | | Field Packed | |
|-------------------------------------|--------------------|----------|---------------------------|----------------------|----------|
| | Sample Costs | My Costs | | Sample Costs | My Costs |
| Pre-harvest cost | \$2.12 | #2.57 | Pre-harvest cost | \$2.12 | #2.57 |
| Pick and haul | .65 ^{OK} | .65 | Pick, pack, supervision | 1.10 1.20 | 1.20 |
| Packinghouse costs | 1.90 ^{OK} | 1.90 | Boxes, etc. | 1.00 1.05 | 1.05 |
| | | | Spread boxes, swamp, haul | .13 .15 | .15 |
| TOTAL | \$4.67 | #5.12 | TOTAL | \$4.35 | #4.97 |
| NET CREDIT-CULLS \$30/75 | .14 | .36 | NET CREDIT-STRIPPING | x, x | |
| NET F.O.B. COST* | \$4.53 | #4.76 | NET F.O.B. COST* | \$4.35 | #4.97 |

*Selling commission, Table Grape Commission assessment and any inspection charges are not included.

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

| YIELD: | 300 | | 400 | | 500 | | 600 | |
|--------------|-------------------------|--|-------------------------|--|-------------------------|--|-------------------------|--|
| House Packed | \$6.10 #6.66 | | \$5.17 #5.55 | | \$4.62 #4.87 | | \$4.25 #4.43 | |
| Field Packed | \$5.92 #6.87 | | \$4.99 #5.76 | | \$4.44 #5.08 | | \$4.07 #4.64 | |

ABOUT THIS SHEET

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. The series includes information on Thompson Seedless for Raisins and Wine, Thompson Seedless for Table Use, Emperors, and Wine Varieties. 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 cost 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 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.

THOMPSON SEEDLESS FOR TABLE USE - Sample Costs for a Mature Vineyard
Cost Analysis Worksheet, 1979

Based on a 120-acre unit. Labor costs at \$4.50 and \$5.50 per hour total. Tractor per hour cash costs at \$3.90, depreciation at \$2.10, and interest at \$1.20. Wages include Social Security, Workmen's Compensation, insurance, and other fringe benefits. Yield is 522 23-pound lugs (87/ton): 6 tons shipped and 2.5 tons culled. 8' x 12' spacing.

| | Sample Costs | | My Costs | |
|---|--------------|------------------|---------------|---------|
| | Per Acre | Per lug | Per Acre | Per lug |
| Pre-Harvest Cash Costs: | | | | |
| Pruning: contract @ 31¢/vine (450/acre) | | \$ 140.00 | | |
| Brush disposal: all middles, contract | | 9.00 | | |
| Tying | | 25.00 | | |
| Fertilizer: 60 lbs. N @ 35¢ applied | | 21.00 | | |
| Girdling: 14 hrs. labor | | 63.00 | | |
| Gibberellin spray - materials & application | | 136.00 | | |
| Thinning: 41 hrs. labor | | 185.00 | | |
| Mildew control: 2½ hrs. labor | | | | |
| + 2 hrs. tractor + materials @ \$8.00 | | 29.00 | | |
| Pest management and materials | | 98.00 | | |
| Herbicide | | 30.00 | | |
| Irrigation preparation and weed control: | | | | |
| 4 hrs. labor + 4 hrs. tractor | | 38.00 | | |
| Irrigate: 6 hrs. labor @ \$5.50 | | 33.00 | | |
| Water-power and/or district tax - 4 ac. ft. | | | | |
| @ \$20.00 | | 80.00 | | |
| Misc. labor: 8 hrs. labor + 2 hrs. tractor | | 46.00 | | |
| Misc. materials, stakes, twine, etc. | | 50.00 | | |
| County taxes | | 65.00 | | |
| Repairs, except tractor | | 24.00 | | |
| Business and office costs, operating capital, insurance, etc. | | 86.00 | | |
| TOTAL PRE-HARVEST CASH COSTS | | \$1158.00 | \$2.22 | |
| Depreciation: | | | | |
| Vines, stakes, trellis: cost \$4697, | | | | |
| 30 yr. life | | \$ 157.00 | | |
| Irrigation system: cost \$565, 20 yr. life | | 28.00 | | |
| Buildings and equipment, except tractor: | | | | |
| cost \$433, 12 yr. life | | 36.00 | | |
| Tractor: 8 hrs. @ \$2.10 | | 17.00 | | |
| TOTAL DEPRECIATION | | \$ 238.00 | \$.45 | |
| Interest on Investment @ 11%: | | | | |
| Vines, stakes, trellis: 1/2 cost \$2348 | | \$ 258.00 | | |
| Irrigation system: 1/2 cost \$283 | | 31.00 | | |
| Buildings and equipment, except tractor: | | | | |
| 1/2 cost \$216 | | 24.00 | | |
| Tractor: 8 hrs. @ \$1.20 | | 10.00 | | |
| Land: \$3500/acre | | 385.00 | | |
| TOTAL INTEREST ON INVESTMENT | | \$ 708.00 | \$1.36 | |
| TOTAL PRE-HARVEST COSTS | | \$2104.00 | \$4.03 | |

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Costs Per Lug of Packed Fruit

| | <u>House Packed</u> | | <u>Field Packed</u> | |
|-------------------------|-------------------------------|---------------------------|-------------------------------|---------------------------|
| | <u>Sample</u> <u>Costs</u> | <u>My</u> <u>Costs</u> | <u>Sample</u> <u>Costs</u> | <u>My</u> <u>Costs</u> |
| Pre-harvest cost | \$4.03 | | Pre-harvest cost | \$4.03 |
| Pick and haul | .75 | | Pick, pack, supervision | 1.35 |
| Packinghouse costs | 2.20 | | Boxes, etc. | 1.25 |
| | | | Spread boxes, swamp, haul | .20 |
| TOTAL | \$6.98 | | TOTAL | \$6.83 |
| NET CREDIT-CULLS \$85/T | .41 | | NET CREDIT-STRIPPING | - |
| NET F.O.B. COST* | \$6.57 | | NET F.O.B. COST* | \$6.83 |

*Selling commission, Table Grape Commission assessment, and any inspection charges are not included.

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

| <u>YIELD:</u> | | | | |
|--------------------|------------|------------|------------|------------|
| <u>Packed lugs</u> | <u>300</u> | <u>400</u> | <u>500</u> | <u>600</u> |
| House Packed | \$9.55 | \$7.80 | \$6.75 | \$6.05 |
| Field Packed | \$9.81 | \$8.06 | \$7.01 | \$6.31 |

ABOUT THIS SHEET

This sheet is one of a series on sample costs of producing grapes in the San Joaquin Valley. The series includes information on Thompson Seedless for Raisins or Wine, Thompson Seedless for Table Use, Wine Varieties, Cordon Trained Spur Pruned Table grapes, and 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.