



Cost Analysis Work Sheet

GARLIC

Southern San Joaquin Valley
1975

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

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COST ANALYSIS WORK SHEET - GARLIC - SOUTHERN SAN JOAQUIN VALLEY - 1975
 BASED ON A YIELD OF 6 TONS PER ACRE FIELD RUN

Man labor at \$2.80 per hour total, irrigator \$3.20 and equipment operator \$3.60 including Social Security and Workman's Compensation Insurance. 90 h.p. crawler tractor per hour cash costs \$7.00, depreciation \$5.00 and interest \$2.50. 50 h.p. wheel tractor \$2.10, \$1.24 and 62¢. 70 h.p. wheel tractor \$2.95, \$1.04 and 52¢. 120 h.p. 4-wheel drive diesel \$4.80, \$2.00 and \$1.00. Costs are figured on a 12 month basis, although garlic may only occupy the land for up to 75% of the year.

| | Sample Costs | | My Costs | |
|---|-----------------|------------------|----------|---------|
| | Per Acre | Per Ton | Per Acre | Per Ton |
| Pre-Harvest Cash Costs: | | | | |
| Disc 2X: 1 hr. crawler tractor | \$ 10.60 | | | |
| Chisel 2X: 1 hr. crawler tractor | 10.60 | | | |
| Landplane 2X: 1 hr. crawler tractor | 10.60 | | | |
| List and fertilize: 1 hr. 120 4-w.d. tractor | 8.40 | | | |
| 500 lbs. material @ \$210/ton | 52.50 | | | |
| Shape beds and plant: | | | | |
| 1/3 hr. per acre, 3 men & 70 h.p. wheel tractor | 4.05 | | | |
| Irrigate 12X: 3 1/2 ft. water @ \$15.00 plus | | | | |
| booster pump @ \$2/ac. ft. | 59.50 | | | |
| labor: 3/4 hr. per time | 28.80 | | | |
| fertilizer: 150 lbs. N at 15¢ | 22.50 | | | |
| Cultivate 5X: 2 hr. 70 h.p. wheel tractor | 13.10 | | | |
| Hand weeding and herbicide total | 110.00 | | | |
| Rent (12 months basis) | 100.00 | | | |
| Supervision | 12.00 | | | |
| Misc. labor, materials, inc. 1 hr. 50 h.p. | | | | |
| wheel tractor | 11.00 | | | |
| Repairs to equipment except tractors | 12.00 | | | |
| Office, car, operating capital, business costs | 49.54 | | | |
| TOTAL PRE-HARVEST CASH COSTS | \$515.19 | \$ 85.86 | | |
| Harvesting Costs: | | | | |
| Total harvest - equip. & labor @ \$.03/lb. | \$360.00 | | | |
| TOTAL HARVESTING COSTS | \$360.00 | \$ 60.00 | | |
| TOTAL CASH COSTS | \$875.19 | \$ 145.86 | | |
| Depreciation: | | | | |
| 70 h.p. wheel tractor, 2 1/3 hrs. @ \$1.04 | \$ 2.43 | | | |
| 120 4-w.d., 1 hr. @ \$2.00 | 2.00 | | | |
| 90 h.p. crawler tractor, 3 hrs. @ \$5.00 | 15.00 | | | |
| 50 h.p. wheel tractor, 1 hr. @ \$1.24 | 1.24 | | | |
| Other equipment: \$90.00 - 10 years | 9.00 | | | |
| TOTAL DEPRECIATION | \$ 29.67 | \$ 4.95 | | |
| Interest on Investment at 8%: | | | | |
| 70 h.p. wheel tractor, 2 1/3 hrs. @ 52¢ | \$ 1.21 | | | |
| 120 h.p. 4-w.d., 1 hr. @ \$1.00 | 1.00 | | | |
| 90 h.p. crawler tractor, 3 hrs. @ \$2.50 | 7.50 | | | |
| 50 h.p. wheel tractor, 1 hr. @ 62¢ | .62 | | | |
| Other equipment 1/2 cost \$45 | 3.60 | | | |
| TOTAL INTEREST ON INVESTMENT (tenant) | \$ 13.93 | \$ 2.32 | | |
| TOTAL COST OF PRODUCTION (tenant) | \$918.79 | \$ 153.13 | | |

Processor furnishes the seed & grower pays harvest cost of \$.03/lb.

SAMPLE COSTS OF PRODUCTION PER TON AT VARYING YIELDS

| Yield: | Average | | | | |
|--------------------------|---------|--------|--------|--------|--------|
| Tons Per Acre | 4 | 5 | 6 | 7 | 8 |
| Cash Costs of Production | 188.80 | 163.04 | 145.86 | 133.60 | 124.40 |
| Total (tenant) | | | | | |
| Cost of Production | 199.71 | 171.76 | 153.13 | 139.83 | 129.85 |

SAMPLE TENANT COST PER TON AT THE INDICATED YIELDS
WITH VARYING WATER COSTS

| YIELDS: | Total costs per ton at indicated water cost per acre foot | | | | |
|---------------|---|----------|----------|----------|----------|
| Tons Per Acre | \$ 5.00 | \$ 10.00 | \$ 15.00 | \$ 20.00 | \$ 25.00 |
| 4 | 189.21 | 193.58 | 197.96 | 202.33 | 206.71 |
| 5 | 163.36 | 166.86 | 170.36 | 173.86 | 177.36 |
| 6 | 146.14 | 149.05 | 151.97 | 154.89 | 157.80 |
| 7 | 133.83 | 136.33 | 138.83 | 141.33 | 143.83 |
| 8 | 124.60 | 126.79 | 128.98 | 131.17 | 133.35 |

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