

GARLIC COST ANALYSIS WORK SHEET

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Sample costs to produce garlic in Fresno County.

Based on a yield of 6 tons per acre field run. Man labor at \$1.90 per hour total, and equipment operator \$2.10 including Social Security and Workman's Compensation Insurance. 80 h.p. crawler tractor per hour cash costs \$3.20, depreciation \$1.80 and interest 72¢, 50 h.p. wheel tractor \$1.40, 74¢ and 30¢. 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 |
| <u>Pre-harvest Cash Costs</u> | | | | |
| Disc 2X: 1 hr. crawler, tractor | 5.30 | | | |
| Chisel 2X: 1 hr. crawler tractor | 5.30 | | | |
| Landplane 2X: 1 hr. crawler tractor | 5.30 | | | |
| List and fertilize: | | | | |
| 1 hr. wheel tractor | 3.50 | | | |
| 80 lbs. N at 8¢ | 6.40 | | | |
| Pre-irrigate: 10" water at \$12 ac. ft. | | | | |
| including booster pump | 10.00 | | | |
| labor | 2.50 | | | |
| Shape beds and plant: | | | | |
| 1/3 hr. per acre, 3 men and wheel trac. | 2.44 | | | |
| Machine hire | 3.15 | | | |
| *Seed (all furnished by grower) | | | | |
| 1500 lbs. at 22¢ | 330.00 | | | |
| Fertilizer: material | 15.00 | | | |
| 1/2 hr. wheel tractor | 1.75 | | | |
| Irrigate 10X: 2 1/2 ft. water at \$12 | | | | |
| Including booster, pump | 30.00 | | | |
| labor: \$1.75 per time | 17.50 | | | |
| fertilizer: 150 lbs. N at 8¢ | 12.00 | | | |
| Insect Control: material and application | 6.30 | | | |
| Cultivate 2X: 1 hr. wheel tractor | 3.50 | | | |
| Hand weeding: 10 hrs. total | 19.00 | | | |
| Rent (12 month basis) | 60.00 | | | |
| Supervision | 10.00 | | | |
| Misc. labor, materials, inc. 1 hr. | | | | |
| wheel tractor | 6.00 | | | |
| Repairs to equipment except tractors | 10.00 | | | |
| Office, car, operating capital, business costs | 26.03 | | | |
| Total Pre-Harvest Cash Costs | 590.97 | 98.49 | | |
| <u>Harvesting Costs</u> | | | | |
| Lift 1 hr. man and wheel trac. | 3.50 | | | |
| Machine rent | 50.00 | | | |
| Contract labor | 135.00 | | | |
| Bags, sack, and haul, inc. 1 hour | | | | |
| man and wheel tractor | 30.00 | | | |
| Total Harvesting Costs | 218.50 | 36.42 | | |
| Total Cash Costs | 809.47 | 134.91 | | |
| <u>Depreciation</u> | | | | |
| 80 h.p. crawler trac. 3 hrs. at \$1.80 | 5.40 | | | |
| 50 h.p. wheel tractor 4 5/6 hrs. at 74¢ | 3.58 | | | |
| Other equipment: \$90.00 10 yrs. | 9.00 | | | |
| Total Depreciation (tenant) | 17.98 | 3.00 | | |

* If the processor furnishes all or part of the seed cost, this item will be reduced and the grower will receive a lower contract price.

Garlic - Con't

Interest on Investment at 7%

| | | |
|--|---------------|---------------|
| 80 h.p. crawler, trac. 3 hrs. at 72¢ | 2.16 | |
| 50 h.p. wheel tractor 4 5/6 hrs. at 30¢ | 1.45 | |
| Other equipment 1/2 cost \$45 | 3.15 | |
| Total Interest on Investment (tenant) | 6.76 | 1.13 |
| Total Cost of Production (tenant) | 834.21 | 139.04 |

SAMPLE COSTS OF PRODUCTION PER TON AT VARYING YIELDS

| Yield: Tons Per Acre | 5 | 6 | 7 | 8 | 9 | 10 |
|-----------------------------------|--------|--------|--------|--------|--------|-------|
| Cash costs of production | 156.39 | 134.91 | 119.57 | 108.06 | 99.11 | 91.95 |
| Total (tenant) cost of production | 161.34 | 139.04 | 123.10 | 111.15 | 101.86 | 94.42 |

SAMPLE TENANTS COSTS PER TON AT THE INDICATED YIELDS
WITH VARYING WATER COSTS

| Yield: tons per acre | Tenant's Costs per ton for garlic at the indicated water cost per acre foot | | | | | |
|-------------------------|--|---------|---------|---------|---------|---------|
| | \$ 1.00 | \$ 3.00 | \$ 6.00 | \$12.00 | \$15.00 | \$18.00 |
| 5 | 155.34 | 157.68 | 158.68 | 162.68 | 164.68 | 166.68 |
| 6 | 134.04 | 135.15 | 136.81 | 140.15 | 141.81 | 143.48 |
| 7 | 118.82 | 119.77 | 121.20 | 124.05 | 125.48 | 126.91 |
| 8 | 107.40 | 108.24 | 109.48 | 111.98 | 113.24 | 114.48 |
| 9 | 98.52 | 99.26 | 100.38 | 102.60 | 103.71 | 104.82 |
| 10 | 91.42 | 92.09 | 93.09 | 95.09 | 96.09 | 97.09 |

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