



*Cost Analysis
Work Sheet*

GARLIC

Southern San Joaquin Valley
1975

**Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA**

PRINTED OCTOBER 1975

**SPECIAL PUBLICATION
3040**

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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Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the United States Department of Agriculture. James B. Kendrick, Jr., Director, Cooperative Extension, University of California.