



*Cost Analysis
Work Sheet*

Cantaloupes

Southern San Joaquin Valley
1975

Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

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COST ANALYSIS WORK SHEET - CANTALOUPEs - SOUTHERN SAN JOAQUIN VALLEY - 1975

Sample costs to produce cantaloupes in the Southern San Joaquin Valley. Based on a yield of 400-40# packed cartons per acre. Man labor @ \$2.80 per hour total, irrigator \$3.20, 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. 120 h.p. 4-wheel diesel \$4.80, \$2.00 and \$1.00. 70 h.p. wheel diesel \$2.95, \$1.04 and 52¢. 50 h.p. wheel diesel \$2.10, \$1.24 and 62¢.

	Sample Costs		My Costs	
	Per Acre	Per Carton	Per Acre	Per Carton
Pre-Harvest Cash Costs:				
Subsoil: 1/2 hr. 90 h.p. crawler	\$ 5.30			
Plow or disc: 2X over, 1 hr. 90 h.p. crawler	10.60			
Landplane or float 2X: 1/2 hr. 90 h.p. crawler	5.30			
Bed preparation and fertilize: 1/3 hr., 120 4-WD	2.80			
250 lbs. material @ \$170/ton	21.25			
Pre-irrigate: water 8" @ \$17/ac.ft. includes \$2/ac.ft. for booster pump	11.33			
Labor: set up and move sprinkler	3.60			
Herbicide - material & application	5.25			
Seed bed preparation: 1/4 hr. 120 h.p. 4-WD	2.10			
Plant: .2 hr. 2 man and 70 h.p. wheel tractor	1.87			
Seed: 3 lbs. @ \$1.85	5.55			
Fertilize and cultivate: .2 hr. 70 h.p. wheel tractor	1.31			
125 lbs. N @ 15¢	18.75			
Irrigate: water 6" @ \$17 includes \$2/ac.ft.	8.50			
Labor	2.00			
Thin and weed	18.00			
Herbicide - materials & application	6.00			
Cultivate: .2 hrs. 70 h.p. wheel tractor	1.31			
Irrigate: water 3" @ \$17/ac.ft. incl. booster pump	6.25			
Furrow and bed up: .2 hrs., 120 h.p. 4-WD	1.68			
Irrigate 3X: furrow; total 9" water @ \$15/ac.ft.	11.25			
Labor: 4.5 hrs. @ \$3.20	14.40			
Hand weed	10.00			
Pest control: materials	15.00			
application	6.00			
Bees: 1 1/2 hives @ \$10	15.00			
Misc. 2 man hrs., 1/2 hr. 50 h.p. wheel tractor and materials	11.00			
Repairs, except tractors	12.00			
Office, car, operating capital, business expenses	79.52			
Rent	100.00			
Supervision	12.00			
TOTAL PRE-HARVEST CASH COSTS	\$ 424.92	\$1.06		
Harvesting Costs:				
Harvest, pack & sell: 400 cartons @ \$2.45/carton				
Pick - \$.70/carton				
Haul - \$.15/carton				
Packing & selling - \$1.60/carton				
TOTAL HARVESTING COSTS	\$ 980.00	\$2.45		
TOTAL CASH COSTS	\$1404.92	\$3.51		
Depreciation:				
50 h.p. wheel diesel, 1/2 hr. @ \$1.24.	\$.62			
70 h.p. wheel diesel, .6 hr. @ \$1.04	.62			
90 h.p. crawler, 2 hrs. @ \$5.00	10.00			
120 h.p. 4-wheel drive, .78 hrs. @ \$2	1.56			
Other equipment, including share of portable irrig. equip. \$90 cost, 10 yr. life	9.00			
TOTAL DEPRECIATION	\$ 21.80	\$.05		

Interest on Investment @ 8%:		
50 h.p. wheel diesel, 1/2 hr. @ 62¢	\$.31
70 h.p. wheel diesel, .6 hr. @ 52¢		.31
90 h.p. crawler, 2 hrs. @ \$2.50		5.00
120 h.p., 4 wheel drive, .78 hrs. @ \$1.00		.78
Other equipment, including share of portable irrig. equip., 1/2 cost \$45		3.60
TOTAL INTEREST ON INVESTMENT (tenant)	\$	10.00
TOTAL COST OF PRODUCTION: To shed	\$	1436.72
		\$.03
		\$3.59

SAMPLE COSTS OF PRODUCTION AT VARYING YIELDS

Yield: packed carton per acre	300	400	500	600	700
Cash cost per carton: delivered to shed	\$3.87	\$3.51	\$3.30	\$3.16	\$3.06
Total cost per carton: delivered to shed	3.97	3.59	3.36	3.21	3.10
Total F.O.B. cost per carton	3.97	3.59	3.36	3.21	3.10

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

YIELD: packed carton per acre	Total cost per packed carton at indicated water cost per acre foot				
	\$5	\$10	\$15	\$20	\$25
300	\$3.88	\$3.92	\$3.96	\$3.99	\$4.03
400	3.53	3.55	3.58	3.61	3.63
500	3.31	3.33	3.35	3.38	3.40
600	3.17	3.19	3.20	3.22	3.24
700	3.06	3.08	3.10	3.11	3.13

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