



*Cost Analysis
Work Sheet*

**Bell
Peppers -
Transplanted**

Southern San Joaquin Valley
1975

**Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA**

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COST ANALYSIS WORK SHEET - BELL PEPPERS-TRANSPLANTED
SOUTHERN SAN JOAQUIN VALLEY - 1975

Based on a yield of 400 cartons weighing 30 lbs. each. 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 per hour cash costs \$7.00, depreciation \$5.00 and interest \$2.50. 120 h.p. 4-wheel drive 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:				
Disc 2X: 1 hr. man and tracklayer	\$ 10.60			
Landplane 2X: 1/2 hr. man and tracklayer		5.30		
Chisel 2X: 1 hr. man and tracklayer		10.60		
Disc 1X: 1/2 hr. man and tracklayer		5.30		
Bed and apply fertilizer: 1/2 hr. 120 h.p. 4-WD		4.20		
400 lbs. material @ \$210/ton		42.00		
Pre-irrigate: 8" water at \$17/ac.ft. incl. booster		11.33		
Labor		3.00		
Harrow 1X: 1/4 hr. 50 h.p. wheel tractor		1.43		
Incorporate herbicide and shape beds custom rate		6.00		
materials & application		7.00		
Transplant:				
Plants to grow & pull - 14,000 plants/acre				
@ \$15/1,000 plants		210.00		
Labor: 8 man hrs/acre		22.40		
2 hrs. man and 50 h.p. tractor		11.40		
2 hrs. water truck and driver		11.90		
Cultivate 3X: and fertilize 1X: 1 1/2 hrs.				
70 h.p. wheel tractor		9.83		
Fertilizer - 120 lbs. N @ 20¢		24.00		
Irrigate 13X: water 3 ac.ft. @ \$15/ac.ft.		45.00		
13 hrs. labor		41.60		
Hoe weeds 2X: 7 hrs. man labor		19.60		
Pest control: materials		41.00		
Applications		10.00		
Rent: (12 months)		100.00		
Repairs: except tractors and truck		12.00		
Misc. labor and materials, incl. 1 hr. 50 h.p.				
wheel tractor		15.00		
Office, car, business costs		77.55		
Supervision		12.00		
TOTAL PRE-HARVEST CASH COSTS	\$ 770.04	\$1.93		
Harvesting Costs:				
Pick and pack - total \$1.50/carton	\$ 600.00			
Approximately 3 tons of peppers for processing				
may be harvested. All costs except harvest				
are charged to the fresh market production.				
Harvest costs would be about \$35.75 per ton.				
TOTAL HARVESTING COSTS	\$ 600.00	\$1.50		
TOTAL CASH COSTS	\$1370.04	\$3.42		
Depreciation:				
Buildings and equipment except truck & tractors:				
\$90 cost, 10 year life	\$ 9.00			
90 h.p. crawler: 3 hrs. @ \$5		15.00		
120 h.p. 4-WD: 1/2 hrs. @ \$2		1.00		
70 h.p. wheel diesel: 1 1/2 hrs. @ \$1.04		1.56		
50 h.p. wheel diesel: 3 1/4 hrs. @ \$1.24		4.03		
TOTAL DEPRECIATION (tenant)	\$ 30.59	\$.08		

Interest on Investment @ 8%:

Buildings and equipment except truck & tractors:

1/2 cost \$45.00	\$ 3.60	
90 h.p. crawler: 3 hrs. @ \$2.50	7.50	
120 h.p. 4-WD: 1/2 hr. @ \$1	.50	
70 h.p. wheel diesel: 1 1/2 hrs. @ 52¢	.78	
50 h.p. wheel diesel: 3 1/4 hrs. @ 62¢	2.02	

TOTAL INTEREST ON INVESTMENT (tenant)	\$ 14.40	\$.04
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TOTAL COST OF PRODUCTION (tenant)	\$1415.03	\$3.54
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SAMPLE COSTS OF PRODUCTION AT VARYING YIELDS

Yield: 30 lbs. cartons per acre	350	400	450	500	550	600
Cash costs only per carton	\$3.70	\$3.42	\$3.21	\$3.04	\$2.90	\$2.78
Total cost per carton	3.83	3.54	3.31	3.13	2.98	2.86

**SAMPLE COSTS PER CARTON AT THE INDICATED YIELDS
WITH VARYING WATER COSTS**

Yield: cartons/acre	Total cost/carton of bell peppers at indicated water costs per acre				
	\$5	\$10	\$15	\$20	\$25
350	\$3.72	\$3.77	\$3.83	\$3.88	\$3.93
400	3.44	3.49	3.53	3.58	3.63
450	3.23	3.27	3.31	3.35	3.39
500	3.05	3.09	3.13	3.16	3.20
550	2.91	2.95	2.98	3.01	3.05
600	2.80	2.83	2.86	2.89	2.92

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