

APR 11 1968

PROCESSING TOMATOES

San Benito County, 1967

UNIVERSITY OF CALIFORNIA
BERKELEY

COST OF PRODUCTION AT VARYING YIELDS¹

YIELD - Tons per acre	15	20	25	30	35
COST PER TON	\$35.00	\$27.34	\$22.75	\$19.69	\$17.38

DETAILS OF MECHANICAL HARVEST CASH COSTS²

Labor Costs	Work hours /day	Total hours /day	Rate per hour ³	Cost per day	Cost per acre
12 sorters	10	120	\$1.57	\$188.40	\$62.80
1 machine operator	12	12	2.25	27.00	9.00
2 trailer men	10	20	1.68	33.60	11.20
1 forklift operator	12	12	1.68	20.16	6.72
1 swamper	10	10	1.57	15.70	5.23
1 supervisor/mechanic	12	12	2.52	30.24	10.08
1 labor manager (10% of sorters pay)				18.84	6.28
<u>Machine Costs</u>					
1 harvester	10	10	5.80	58.00	19.33
2 tractors	10	20	1.18	23.60	7.86
2 trailers	10	20	.20	4.00	1.34
1 forklift	12	12	.50	6.00	2.00
washing equipment	1½	1½	.70	1.05	.35
misc. disc, scraper, etc.				2.43	.81
Bin rental, Inspection Fee, Assn, dues					17.50

HOURLY CASH COSTS OF MAJOR CULTURAL EQUIPMENT²

60 h.p. crawler tractor --	\$2.15	Disc, 10½ ft., -----	\$1.00
70 h.p. wheel tractor ---	1.65	Disc, 13½ ft., -----	1.55
25 h.p. wheel tractor ---	.70	Landplane, 10' x 40' -	1.85
plow, 2 way 3 bottom ---	.60	Precision planter --	.50

¹Assuming harvester speed is maintained at 3 acres per day and the addition of two sorters for each 5 tons increase and the subtraction of two sorters for each 5 tons decrease.

²Depreciation or interest costs are included in the investment table.

³Labor rates include all benefits.

SAMPLE COSTS OF PRODUCING PROCESSING TOMATOES

(Machine Harvested)

San Benito County, 1967

H. Bill Collins, Farm Advisor

Philip S. Parsons, Extension Economist

250 acre farm with 100 acres of tomatoes

Yield --- 25 tons per acre

Operation	Hrs. Per Acre	Cash and labor cost per acre				Total
		Labor	Fuel & Repairs	Materials Kind and Quantity Cost		
Cultural Costs						
Land preparation	3.8	\$ 7.04	\$10.83			\$ 17.87
List & fert. (contract)				Fertilizer applied	\$19.75	19.75
Herbicide (contract)				Herbicide applied	30.00	30.00
Plant	.3	.56	.65	1/3 lb. @ \$15	5.00	6.21
Irrigate 7X	14.0	19.60		Power to pump & boost 20 acre inches	18.50	38.10
Thin & Weed (contract)					10.00	10.00
Cultivate 4X	1.6	2.96	1.92			4.88
Side dress (contract)				Fertilizer applied	12.00	12.00
Pest Control 2X (contract)				Pesticide applied	16.00	16.00
TOTAL CULTURAL COSTS		\$30.16	\$13.40	(\$6.19 per ton)	\$111.25	\$154.81
Harvest Costs						
Harvest & Labor (harvester 3.3 hrs.)	44.0	\$71.80	\$19.14			\$ 90.94
Tractors & Trailers	6.7	11.26	9.25			20.51
Forklift & Swamper	7.3	11.90	2.00			13.90
Supervisor & labor mgr.	9.0	16.36				16.36
Washing & misc. equip.	.6	.17	1.16			1.33
Bin rental, Inspection fee, Assn. dues					\$17.50	17.50
TOTAL HARVEST COSTS		\$111.49	\$31.55	(\$6.42 per ton)	\$17.50	\$160.54
Cash overhead						
Misc., office, interest on operating capital, pickup truck, insurance						\$ 15.76
Taxes on equipment						5.02
Rent, including well						80.00
TOTAL CASH OVERHEAD						\$100.78
TOTAL CASH COST				(\$16.65 per ton)		\$416.13
MANAGEMENT -- 5% of 25 tons @ \$29.00 (5 yr. average price)						\$ 36.25
INVESTMENT						
		PER ACRE	Annual Cost Per Acre			
			Depreciation	Interest		
Equipment storage, shop		\$ 44.00	\$ 1.54	\$ 1.10		
Irrigation system including gated surface pipe, sprinkler pipe, & booster pump		48.75	6.09	1.71		
Tractors, 4		151.23	13.26	5.30		
Pickup trucks, 2		25.00	5.00	.88		
Other cultural equipment		51.75	5.03	1.82		
Other harvesting equipment		285.50	64.73	9.99		
TOTAL INVESTMENT OVERHEAD		\$606.23	\$95.65	\$20.80		\$116.45
TOTAL COST PER ACRE						\$568.83
Cost per ton @ 25 tons yield						\$ 22.75