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TOMATO COSTS OF PRODUCTION

RENTED LAND BASIS

DIXON AREA, SOLANO COUNTY, CALIFORNIA

DECEMBER 1970

AGRICULTURAL EXTENSION SERVICE

UNIVERSITY OF CALIFORNIA

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FAIRFIELD, CALIFORNIA

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS, U. S. DEPARTMENT OF AGRICULTURE,  
UNIVERSITY OF CALIFORNIA AND COUNTY OF SOLANO COOPERATING

DIXON AREA, SOLANO COUNTY, DECEMBER 1970

TOMATO COSTS OF PRODUCTION

RENTED LAND BASIS

Prepared by: Everett F. Nourse, Solano County Farm Advisor and Phil Parsons, Extension Economist U.C., Davis, California

assisted by representative growers of the Dixon area

Production Data: Based on 350 acres of tomatoes on a 1000 acre farm. Yield 24 tons.

Labor - \$1.75; \$1.85; \$2.00 - cash wages

This study represents a typical operation in the Dixon area and not any particular situation.

OPERATION	HOURS PER AC.	LABOR	FUEL & REPAIRS	MATERIALS		TOTAL
				KIND & QUANTITY	COST	
Seedbed Preparation						
Fall						
Disc (150 ac.) 3/7 of .30	.13	.26	.70(\$2.85+2.57)			.96
Plow (150 ac.) 3/7 of .70	.30	.60	1.85(\$2.85+3.30)			2.45
Disc (200 ac.) 4/7 of .30 x 2X	.34	.68	1.84			2.52
Landplane 2X	.75	1.50	2.94(\$2.85+1.07)			4.44
Chisel (150 ac) 3/7 of .60	.26	.52	1.01(\$2.85+1.05)			1.53
Chisel (200 ac) 4/7 of .60 x 2X	.68	1.36	2.65			4.01
Spring						
Disc 2X	.60	1.20	3.25			4.45
Springtooth	.12	.24	.57(\$2.85+1.90)			.81
Harrow & Roll	.17	.34	.62(\$2.85+ .17+.63)			.96
List or Ridge & Starter	.25	.50	.49(\$1.85+.10) 15 gal.@.45		6.75	7.74
Fertilizer				Tag-A-Long rental	.50	.50
Move Equipment, Set-up, and Service at 7% of Oper. Time	.25	.50				.50
<b>TOTAL</b>	<b>3.85</b>	<b>7.70</b>	<b>15.92</b>		<b>7.25</b>	<b>30.87</b>

OPERATION	HOURS PER AC.	LABOR	FUEL & REPAIRS	MATERIALS		TOTAL
				KIND & QUANTITY	COST	
<b>Planting</b>						
Sled, Shape, Incor., Plant (2 men)	.40	1.54	1.75 (\$1.85+2.52)	Seed 1 lb.	15.00	18.29
Weed Materials - 6 lbs/ac				1/3 of area or 1.8 lbs.	6.23	6.23
				Rent Tag-A-Long	.50	.50
Move Equipment, set-up, and service at 10% of oper. time	.04	.08				.08
<b>TOTAL</b>	<b>.44</b>	<b>1.62</b>	<b>1.75</b>		<b>21.73</b>	<b>25.10</b>
<b>Growing</b>						
Cultivate-sled & implem. 2X	.50	1.00	2.03 (\$1.85+2.20)			3.03
Thin-machine blocker	.30	.60	.49 (\$1.32+ .32)			1.09
Rolling cultivator	.17	.34	.54 (\$1.85+1.32)			.88
Cultivate & Furrow 2X	.50	1.00	2.03 (\$1.85+2.20)			3.03
Hoe (Trim & Hoe)	10.00	17.50				17.50
Hoe	6.50	11.38				11.38
Ditch-Open & Close 3X	.12	.24	.37 (\$2.85+ .21)			.61
Irrigate 7X	10.5	19.43		5 ac.ft. at \$3.75+8.07 siphons, dams, shovels	26.82	46.25
					.33	.33
Fertilize-tractor & sled	.25	.50	1.01 (1.85+2.20)	125 lbs. N at 5.2¢	6.50	8.01
				Rent Tag-A-Long	.50	.50
Insect control-seedling stage				Contract ground rig appl.	2.00	2.00
				Materials	8.00	8.00
Insect Control-worm contr. 2X				Contract ground rig appl.	4.00	4.00
				Materials	15.00	15.00
Insect Control Worm contr.				Air application	2.50	2.50
				Materials	7.50	7.50
<b>TOTAL</b>		<b>51.99</b>	<b>6.47</b>		<b>73.15</b>	<b>131.61</b>

OPERATION	HOURS PER AC.	LABOR	FUEL & REPAIRS	MATERIALS		TOTAL
				KIND & QUANTITY	COST	
Misc. operating & growing costs						
Office, pick-up truck, interest on operating capital, roadways				12% of above		22.50
Social security, workmen's compensation, transportation, bonuses				12% of cash wages		7.35
Labor transportation, supervision, and records.						5.00
<b>TOTAL</b>						<b>34.85</b>
<b>Total pre-harvest costs (all of the above)</b>						<b>222.43</b>
<b>Harvest</b>						
Machine (harvester)	2.7		16.77 (\$6.21 per hr)			16.77
Driver at \$2.15	3.2	6.88				6.88
Sorters - 16 @ \$1.75	2.7	75.60				75.60
Sorters supervisor at \$1.85	2.7	5.00				5.00
Trailer (2 1/2)	2.7		1.30 (1/2 of .95=.48)			1.30
Tractor (2 1/2)	2.7		8.91 (1.32 x 2 1/2)			8.91
Driver 2 1/2 at \$1.85	2.9	13.43				13.43
Forklift	3.0		5.19 (1.73 x 3.0)			5.19
Driver at \$2.20	3.0	6.60				6.60
Swamper at \$1.75	2.7	4.73				4.73
Mechanic & Supervisor at \$3.00	3.3	9.90				9.90
Misc. equip - disc., scrapper, washer water trailer, pick-up truck at \$20.00 per 9 hr. day	3.0		6.66			6.66
Misc. supplies - drinks, goggles, \$6.60 per day	3.0					2.00
<b>Toilets</b>						<b>1.00</b>
Inspection at .20¢/ton						4.80
Bin rental at .40¢/ton						9.60
Rejected loads .5% of delivered loads -25% resorting loss						1.25
Social security, workman's compensation, bonus, transportation, etc. at 12% of cash wages of steady employees (\$122.14 less \$80.33)						5.02
Addit. charges for seasonal labor - bookkeeping etc. \$2.00/day/man 18 men x \$2.00=\$36 ÷ 3.3 acres/day						10.91
<b>TOTAL HARVEST COSTS</b>						<b>195.55</b>

				TOTAL
Cash Overhead				
Taxes on Equipment		$\$375 \times 65\% = \$244 \times 25\% = \$61.00$	assessed value $\times 7.5$	4.58
Rent		$24 \text{ tons} \times \$28.00 = \$672 \times 15\%$		100.80
TOTAL CASH OVERHEAD				105.38
TOTAL CASH COST				523.36
Management - 5% of 24 tons at \$28.00				33.60
<u>INVESTMENT</u>	<u>PER ACRE</u>	<u>ANNUAL COST</u>		
		<u>DEPRECIATION</u>	<u>INTEREST</u>	
Buildings	15.00	.50	.53	
Equipment	<u>375.00</u>	<u>55.30</u>	<u>13.11</u>	
TOTAL	390.00	55.80	13.64	69.44
TOTAL COST PER ACRE				626.40
COST PER TON at 24 T/ac. yield				26.10

INVESTMENT FOR TOMATOES

SOLANO COUNTY DECEMBER 1970 BASED ON 350 AC. OF TOMATOES ON 1000 AC. FARM

ITEM	COST INCL. 5% TAX	ANN. USE (acres)	COST PER ACRE	LIFE (yrs.)	DEPREC.	INTEREST	CASH COSTS PER HOUR			HOURS PER AC
							FUEL	REPAIRS	TOTAL	
Tractor 95 C.D.B. H.P. (500 ac)	28,875	500	57.75	10	5.78	2.02	.85	2.00	2.85	
Tractor 94 W.D.B. H.P. 1.	11,000	800	13.75	10	1.38	.48	.75	1.10	1.85	
Tractor 94 W.D.B. 1	14,700	800	18.38	10	1.84	.64	.75	1.47	2.22	
Tractor-Used, 3	3,000	800	3.75	4	.94	.13	.32	1.00	1.32	
Land Plane 12 X 60	7,150	1000	7.15	20	.36	.25		1.07	1.07	.25
Plow 4 - 16's 2 way	4,725	600	7.88	8	.99	.28		3.30	3.30	.50
Disc 18' 24' Blade	3,675	500	7.35	10	.74	.26		2.57	2.57	.20
Spike Harrow 20' Light	420	1000	.42	10	.04	.01		.17	.17	.20
Spike Harrow 20' Heavy	680	1000	.68	12	.06	.02		.27	.27	.20
Smizer Roller 30'	3,153	600	5.25	12	.44	.18		.63	.63	.17
Lilliston Rolling Cultivator	2,200	350	6.29	10	.63	.22		1.32	1.32	.17
Sled (plant) incorp.	4,200	350	12.00	10	1.20	.42		2.52	2.52	.40
Sled (cultivating) complete	3,675	350	10.50	10	1.05	.37		2.20	2.20	.50
Planters (Flex)	1,260	350	3.60	10	.36	.13		.88	.88	.40
Ditcher 54'	2,100	800	2.63	20	.13	.09		.21	.21	
Bedding Tool Bar	900	350	2.57	10	.26	.08		.10	.10	
Saddle Tanks for Fertil. & Herbic.	840	600	1.40	10	.14	.05		.84	.84	
Harvestors (2)	50,000	350	142.86	5	28.57	5.00			6.21	
Trailers (5)	6,300	350	18.00	6	3.00	.63		.95	.95	
Forklift	8,200	400	20.50	10	2.05	.72	.50	1.23	1.73	
Pick-up 3/4 ton	4,200	1,000	4.20	3	1.40	.15				
Pick-up 1/2 ton (used)	600	350	1.71	2	.86	.06				

ITEM	COST INCL. 5% TAX	ANN. USE (ACRES)	CO. PER ACRE	LIFE (YRS)	DEPREC.	INTEREST	CASH COSTS PER HOUR		HOURS PER AC	
							FUEL	REPAIRS		TOTAL
Springtooth 30'	3,150	1,000	3.15	10	.32	.11		1.90	1.90	.12
Siphons 1 1/2" 300'	475	350	1.36	10	.14	.05				
Canvas 12 pcs.	350	350	1.00	5	.20	.04				
Truck 1/2 share	2,100	350	6.00	8	.75	.21				
Water Trailer 1/2 share	525	350	1.50	5	.30	.05				
Mechanical (blocker) thinner 6 row	800	350	2.29	6	.38	.08		.32	.32	
Chisel 12'	1,500	700	2.14	10	.21	.07		1.05	1.05	
Subsoiler 10' (ripper)	3,000	500	6.00	10	.60	.21		1.05	1.50	
Ditch Closer	2,200	800	2.75	15	.18	.10		.88	.88	
TOTAL	175,950	XXXX	374.81	XX	55.30	13.11				
BUILDING	15,000	1,000	15.00	30	.50	.53				
* * * * * * To simplify information, trade names of products have been used. No endorsement of named products is intended, * nor is criticism implied of similar products which are not mentioned. * * * * *										