

COST & RETURNS SUMMARY FOR TOMATOES, FRESH  
 COSTS OF PRODUCTION FOR FRESH MARKET STAKED TOMATOES-SUMMER HARVEST 1981  
 TULARE CO. BY VINCENT SCHWEERS, FARM ADVISOR & P. THOMAS, SRA  
 YIELD: 2000 CARTONS/ACRE (1000 20 LB. AND 1000 30 LB. CARTONS)

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
<b>1. GROSS RECEIPTS FROM PRODUCTION:</b>					
TOMATOES(20 LBS)	CTNS	0.000	1000.000	0.00	See notes
TOMATOES(30 LBS)	CTNS	0.000	1000.000	0.00	
TOTAL RECEIPTS:				0.00	
<b>2. VARIABLE COSTS:</b>					
<b>PREHARVEST:</b>					
CUSTOM RIP	ACRE	45.000	1.000	45.00	
MANURE	TON	10.000	7.000	70.00	
FUMIGATE	ACRE	70.000	1.000	70.00	
HERBICIDE	ACRE	20.000	1.000	20.00	
CUSTOM AIR HERB	APLC	5.000	1.000	5.00	
TRANSPLANTS	EACH	0.053	4500.000	238.50	
ADDL PLANT LABOR	HOUR	4.500	2.670	12.02	
STARTER SOLUTION	GAL.	1.620	3.750	6.08	
CUT WORM BAIT	ACRE	15.000	1.000	15.00	
SUPER HOT CAPS	EACH	0.106	4500.000	477.00	
FROST PROTECTION	HOUR	4.500	15.000	67.50	
OPEN & REM. CAPS	HOUR	4.500	45.000	202.50	
FERT.-COMPLETE	LBS.	0.123	300.000	36.90	
FERT.-NITROGEN	LBS.	0.069	250.000	17.25	
SET & REM STAKES	HOUR	4.500	50.000	225.00	
TIE PLANTS	HOUR	4.500	80.000	360.00	
TWINE	LBS.	2.500	75.000	187.50	
INSECTICIDE	ACRE	16.000	6.000	96.00	
AERIAL SPRAYING	APLC	6.000	6.000	36.00	
AMMONIUM NITRATE	LBS.	0.077	250.000	19.25	
PINCH SUCKERS	HOUR	4.500	25.000	112.50	
FIELD TOILET	MO.	1.000	6.000	6.00	
DISTRICT TAX	ACRE	6.000	1.000	6.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			11.07	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			7.86	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			20.34	
IRRIGATION (POWER-LUBE-REP)	ACIN	0.991	48.000	47.55	
MACHINERY LABOR	HOUR	5.250	7.275	38.19	
MACHINE CREW LABOR	HOUR	4.500	14.330	64.49	
IRRIGATION LABOR	HOUR	5.250	6.680	35.07	
INTEREST ON OPERATING CAP.	DOL.	0.14000	1035.342	140.12	
TOTAL PREHARVEST COSTS:				2695.74	
PREHARVEST COST PER CTNS				1.3479	
<b>HARVEST:</b>					
SUPERVISOR-HARV.	HOUR	5.250	30.000	157.50	
HAND HARVEST	HOUR	4.500	650.000	2925.00	
SUPERVISOR-SORT.	HOUR	3.900	30.000	117.00	
SORTING	HOUR	3.600	225.000	810.00	
WAX CONTRACT	CTNS	0.020	2000.000	40.00	
PACKING	CTNS	0.200	2000.000	400.00	
CARTONS	CTNS	0.875	2000.000	1750.00	
HAULING	HOUR	4.500	50.000	225.00	
LID & STACK	HOUR	4.500	30.000	135.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			28.88	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			0.41	
MACHINERY LABOR	HOUR	5.250	9.109	47.82	
INTEREST ON OPERATING CAP.	DOL.	0.14000	582.467	81.55	
TOTAL HARVEST COSTS:				6718.16	
HARVEST COST PER CTNS				3.3581	
TOTAL VARIABLE COSTS:				9413.89	
VARIABLE COST PER CTNS				4.7069	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>					
INCOME PER CTNS					
<b>4. OVERHEAD:</b>					
PERSONAL PROPERTY TAXES:				11.39	
REAL PROPERTY TAXES:				23.00	
MISC. OFFICE & BOOKKEEPING ( 1.50% OF TOTAL VARIABLE COSTS)				141.21	
TOTAL OVERHEAD:				175.60	
OVERHEAD COST PER CTNS				0.0878	
TOTAL CASH COSTS:				9589.49	
TOTAL CASH COST PER CTNS				4.7947	
<b>5. INCOME ABOVE ALL CASH COSTS:</b>					
INCOME PER CTNS					
<b>6. OWNERSHIP COSTS:</b>					
<b>DEPRECIATION:</b>					
MACHINERY & EQUIPMENT	ACRE			29.01	
IRRIGATION SYSTEM	ACRE			51.89	
BUILDINGS	ACRE			63.85	
TOTAL DEPRECIATION:				144.74	
<b>CAPITAL &amp; INTEREST:</b>					
MACHINERY & EQUIPMENT		0.14000	284.073	39.77	
IRRIGATION SYSTEM		0.14000	519.268	72.70	
BUILDINGS		0.10670	906.604	96.73	
LAND		0.10670	4500.000	480.15	
TOTAL INTEREST CHARGE:				689.35	
TOTAL FIXED COSTS:				834.10	
FIXED COST PER CTNS				0.4170	
<b>7. TOTAL OF ABOVE COSTS:</b>					
TOTAL COST PER CTNS				10423.58	
				5.2118	
<b>8. NET RETURNS:</b>					
NET RETURNS PER CTNS					

BASED ON 20 ACRES OF TOMATOES ON 320 ACRE FARM  
 FURROW IRRIGATION: 48 ACIN PER YEAR 4500 PLANTS/ACRE  
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MACHINERY OPERATIONS SUMMARY BUDGET RECORD NUMBER 203  
 COSTS OF PRODUCTION FOR FRESH MARKET STAKED TOMATOES-SUMMER HARVEST 1981  
 TULARE CO. BY VINCENT SCHWEERS, FARM ADVISOR & P. THORAS, SRA  
 YIELD: 2000 CARTONS/ACRE (1000 20 LB. AND 1000 30 LB. CARTONS)

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOUR S	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
TANDEM DISC	3, 66	OCT	1.00	0.315	0.260	2.20	2.36
SPIKE HARROW	73	OCT	1.00	0.000	0.331	0.39	1.10
TANDEM DISC	3, 66	NOV	1.00	0.315	0.260	2.20	2.36
SPIKE HARROW	73	NOV	1.00	0.000	0.331	0.39	1.10
4 WH PLANE 12X45	3, 85	DEC	2.00	0.587	0.485	3.39	5.57
4 R TRANSPLANTER	3,119	FEB	1.00	2.834	0.335	1.95	3.13
TRAILER FLATBED	2,149	FEB	1.00	0.049	0.041	0.17	0.27
2 WIND MACHINES*	33	FEB	1.20	0.000	1.200	0.00	3.83
HOTCAPPER #1	4,123	FEB	0.25	2.080	0.573	1.07	3.16
HOTCAPPER #2	5,124	FEB	0.25	2.080	0.573	1.07	3.16
HOTCAPPER #3	6,125	FEB	0.25	2.080	0.573	1.07	3.16
HOTCAPPER #4	7,126	FEB	0.25	2.080	0.573	1.07	3.16
CULTIVATOR 2 ROW	2, 51	MAR	1.00	0.467	0.386	1.80	1.65
DRY FERT APPLIC.	69	MAR	1.00	0.000	0.391	0.95	4.69
TRAILER FLATBED	2,149	MAR	1.00	0.049	0.041	0.17	0.27
2 WIND MACHINES*	33	MAR	1.20	0.000	1.200	0.00	3.83
CULTIVATOR 2 ROW	2, 51	APR	2.00	0.935	0.772	3.59	3.30
DRY FERT APPLIC.	69	APR	1.00	0.000	0.391	0.95	4.69
TRAILER FLATBED	2,149	APR	1.00	0.049	0.041	0.17	0.27
CULTIVATOR 2 ROW	2, 51	MAY	1.00	0.467	0.386	1.80	1.65
DRY FERT APPLIC.	69	MAY	1.00	0.000	0.391	0.95	4.69
BIN TRAILER	2,148	JUNE	2.00	0.704	0.582	2.27	2.25
BIN TRAILER	2,148	JULY	16.00	5.634	4.656	18.19	17.98
TRAILER FLATBED	2,149	AUG	1.00	0.049	0.041	0.17	0.27
BIN TRAILER	2,148	AUG	2.00	0.704	0.582	2.27	2.25

TOTALS 21.478 15.395 48.22 80.16  
 BASED ON 20 ACRES OF TOMATOES ON 320 ACRE FARM  
 FURROW IRRIGATION: 48 ACIN PER YEAR 4500 PLANTS/ACRE  
 LAND OWNERSHIP BASIS  
 DATE PRINTED: 01/21/82

UPDATED 01/21/82

VERSION #29.3.8.

1/21/82 16:29:50 HOURS

INSUFFICIENT STORAGE FOR 0001GE 200 STARTER SOLUTION  
 INSUFFICIENT STORAGE FOR 0001GE 387 CARTONS  
 INSUFFICIENT STORAGE FOR 0001GE 204 FERT.-COMPLETE  
 INSUFFICIENT STORAGE FOR 0001GE 205 FERT.-NITROGEN  
 INSUFFICIENT STORAGE FOR 0001GE 203 LID & STACK  
 INSUFFICIENT STORAGE FOR 0001GE 261 FUMIGATE  
 INSUFFICIENT STORAGE FOR 0001GE 208 AMMONIUM NITRATE  
 INSUFFICIENT STORAGE FOR 0001GE 232 ADDL PLANT LABOR  
 INSUFFICIENT STORAGE FOR 0001GE 148 BIN TRAILER  
 INSUFFICIENT STORAGE FOR 0001GE 4 TRACTOR 15HP #1  
 INSUFFICIENT STORAGE FOR 0001GE 5 TRACTOR 15HP #2  
 INSUFFICIENT STORAGE FOR 0001GE 6 TRACTOR 15HP #3  
 INSUFFICIENT STORAGE FOR 0001GE 7 TRACTOR 15HP #4  
 INSUFFICIENT STORAGE FOR 0001GE 21 IRR PUMP 15HP#  
 INSUFFICIENT STORAGE FOR 0001GE 33 2 WIND MACHINES#  
 INSUFFICIENT STORAGE FOR 0001GE 89 45 BUCKETS  
 INSUFFICIENT STORAGE FOR 0001GE 70 40 ORCH HEATERS  
 INSUFFICIENT STORAGE FOR 0001GE 90 100 BINS

STORED DATA PAGE (NO CALCULATIONS) FOR TOMATOES, FRESH

BUDGET RECORD NUMBER 203

COSTS OF PRODUCTION FOR FRESH MARKET STAKED TOMATOES-SUMMER HARVEST 1981  
 TULARE CO. BY VINCENT SCHWEERS, FARM ADVISOR & P. THOMAS, SRA  
 YIELD: 2000 CARTONS/ACRE (1000 20 LB. AND 1000 30 LB. CARTONS)

COSTS AND RETURNS WILL BE  
 DIVIDED BY 2000.0 CTNS  
 TO OBTAIN PER CTNS COSTS

LINE ACTION	COSTS OF PRODUCTION FOR FRESH MARKET STAKED TOMATOES-SUMMER HARVEST 1981												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
	1	2	3	4	5	6	7	8	9	10	11	12						
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	RENT	CODE	CODE	XXXX	XXXX	
2 TOMATOES(20 LBS)	0.00	0.00	0.00	0.00	0.00	50.00	90.00	50.00	0.00	0.00	0.00	0.00	0.000	28.	97.	2.	0.	
2 TOMATOES(30 LBS)	0.00	0.00	0.00	0.00	0.00	50.00	90.00	50.00	0.00	0.00	0.00	0.00	0.000	28.	98.	2.	0.	
OPERATING INPUTS																		
	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
3 CUSTOM RIP	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	45.000	0.000	7.	279.	3.	0.
4 MANURE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.00	0.00	0.00	10.000	0.000	3.	202.	3.	0.
5 FUMIGATE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	70.000	0.000	7.	261.	3.	0.
6 HERBICIDE	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.000	0.000	7.	250.	3.	0.
7 CUSTOM AIR HERB	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.000	0.000	34.	373.	3.	0.
8 TRANSPLANTS	0.00	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.053	0.000	23.	161.	3.	0.
9 ADDL PLANT LABOR	0.00	2.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	232.	3.	0.
10 STARTER SOLUTION	0.00	3.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.620	0.000	5.	200.	3.	0.
11 CUT WORM BAIT	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.000	0.000	7.	246.	3.	0.
12 SUPER HOT CAPS	0.00	*****	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.106	0.000	23.	449.	3.	0.
13 FROST PROTECTION	0.00	10.00	5.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	411.	3.	0.
14 OPEN & REA. CAPS	0.00	0.00	20.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	162.	3.	0.
15 FERT.-COMPLETE	0.00	0.00	150.00	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.123	0.000	12.	204.	3.	0.
16 FERT.-NITROGEN	0.00	0.00	0.00	0.00	250.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.069	0.000	12.	205.	3.	0.
17 SET & REA. STAKES	0.00	0.00	25.00	0.00	0.00	0.00	0.00	25.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	330.	3.	0.
18 TIE PLANTS	0.00	0.00	0.00	25.00	40.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	342.	3.	0.
19 TWINE	0.00	0.00	0.00	23.50	37.50	14.00	0.00	0.00	0.00	0.00	0.00	0.00	2.500	0.000	12.	384.	3.	0.
20 INSECTICIDE	0.00	0.00	0.00	1.00	1.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	16.000	0.000	7.	240.	3.	0.
21 AERIAL SPRAYING	0.00	0.00	0.00	1.00	1.00	3.00	1.00	0.00	0.00	0.00	0.00	0.00	6.000	0.000	34.	370.	3.	0.
22 AMMONIUM NITRATE	0.00	0.00	0.00	0.00	50.00	100.00	100.00	0.00	0.00	0.00	0.00	0.00	0.077	0.000	12.	208.	3.	0.
23 PINCH SUCKERS	0.00	0.00	25.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	328.	3.	0.
24 SUPERVISOR-HARV.	0.00	0.00	0.00	0.00	0.00	6.00	22.00	2.00	0.00	0.00	0.00	0.00	5.250	0.000	8.	500.	3.	9.
25 HAND HARVEST	0.00	0.00	0.00	0.00	0.00	100.00	500.00	50.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	347.	3.	9.
26 SUPERVISOR-SORT.	0.00	0.00	0.00	0.00	0.00	6.00	22.00	2.00	0.00	0.00	0.00	0.00	3.900	0.000	8.	499.	3.	9.
27 SORTING	0.00	0.00	0.00	0.00	0.00	18.00	200.00	7.00	0.00	0.00	0.00	0.00	3.600	0.000	8.	334.	3.	9.
28 WAX CONTRACT	0.00	0.00	0.00	0.00	0.00	100.00	*****	100.00	0.00	0.00	0.00	0.00	0.020	0.000	28.	379.	3.	9.
29 PACKING	0.00	0.00	0.00	0.00	0.00	100.00	*****	100.00	0.00	0.00	0.00	0.00	0.200	0.000	28.	345.	3.	9.
30 CARTONS	0.00	0.00	0.00	0.00	0.00	100.00	*****	100.00	0.00	0.00	0.00	0.00	0.875	0.000	28.	387.	3.	9.
31 MULCHING	0.00	0.00	0.00	0.00	0.00	2.50	45.00	2.50	0.00	0.00	0.00	0.00	4.500	0.000	8.	480.	3.	9.
32 FIELD TOILET	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	1.000	0.000	40.	481.	3.	0.
33 DISTRICT TAX	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	6.000	0.000	7.	447.	3.	0.
34 LID & STACK	0.00	0.00	0.00	0.00	0.00	2.00	26.00	2.00	0.00	0.00	0.00	0.00	4.500	0.000	8.	203.	3.	9.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												A CREW POWER		MACH TYPE	HARV		
														LABOR	UNIT CODE		CODE	
35 4 WH PLANE 12X45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.000	0.000	3.	85.	4.	0.
36 R TRANSPLANTER	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	8.000	3.	119.	4.	0.
37 CULTIVATOR 2 ROW	0.00	0.00	1.00	2.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	51.	4.	0.
38 FERT APPLIC.	0.00	0.00	1.00	1.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.	69.	4.	0.
40 TRAILER FLATBED	0.00	1.00	1.00	1.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	149.	4.	0.
41 TANDEM DISC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.000	0.000	3.	66.	4.	0.
42 SPIKE HARROW	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	1.00	0.00	0.000	0.000	0.	73.	4.	0.
43 2 WIND MACHINES#	0.00	1.20	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	0.	33.	4.	0.
44 HOTCAPPER #1	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	4.000	4.	123.	4.	0.
45 HOTCAPPER #2	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	4.000	5.	124.	4.	0.
46 HOTCAPPER #3	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	4.000	6.	125.	4.	0.
47 HOTCAPPER #4	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	4.000	7.	126.	4.	0.
48 BIN TRAILER	0.00	0.00	0.00	0.00	0.00	2.00	16.00	2.00	0.00	0.00	0.00	0.00	0.000	0.000	2.	148.	4.	9.
														SHARE	SHARE	POWER	SYSA	
														FIXED	VAR	UNIT CODE	LIFT	
49 ACIN IRRIG WATER	0.00	0.00	4.00	4.00	12.00	12.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.	132.	100.
50 NO. TIMES IRRIG	0.00	0.00	1.00	1.00	4.00	6.00	8.00	0.00	0.00	0.00	0.00	0.00	0.00					

EQUIPMENT REQUIREMENTS	NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST	CODE			
51 FARM SHOP	1.000	0.400	0.	2.	5.	0.
52 TOOLS-SHOP EQUIP	1.000	0.400	0.	4.	5.	0.
53 PACKING SHED	1.000	0.400	0.	13.	5.	0.
54 FUELTANK 550 GAL	1.000	0.400	0.	18.	5.	0.
55 40 ORCH HEATERS	40.000	1.000	0.	70.	5.	0.
56 2520 STAKES	****	1.000	0.	69.	5.	0.
57 45 BUCKETS	45.000	1.000	0.	89.	5.	0.
58 100 BINS	100.000	1.000	0.	90.	5.	0.

COLUMNS --->

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE	NUMBER	VALUE OR	TAXES	PERENNIAL CROPS		
	METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE	
71 ENTERPRISE 2-96 REGION/COUNTY 54 UNASSIGNED	1.	20.00	4500.00	23.00	0.0	0.00	

2 IRIG SYST 6 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 8

BASED ON 20 ACRES OF TOMATOES ON 320 ACRE FARM  
 FURROW IRRIGATION: 48 ACIN PER YEAR 4500 PLANTS/ACRE  
 LAND OWNERSHIP BASIS

UPDATED 01/21/82

MACHINERY COMPLEMENT 2  
 EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE-->	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
334 SORTING	379 MAX CONTRACT	449 SUPER HOT CAPS	481 FIELD TOILET	328 PINCH SUCKERS	
499 SUPERVISOR-SORT.	500 SUPERVISOR-HARV.	161 TRANSPLANTS	162 OPEN & REA. CAPS	330 SET & REA STAKES	
342 TIE PLANTS	97 TOMATOES(20 LBS)	98 TOMATOES(30 LBS)			
MACHNRY NAME CHANGE-->	66 TANDEM DISC	123 HOTCAPPER #1	124 HOTCAPPER #2	125 HOTCAPPER #3	126 HOTCAPPER #4
EQUIP NAME CHANGE-->	69 2520 STAKES				

MACH COMP CHGS-->	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE	RW CL	VALUE
1. 1.	1.000000	1. 3.	1200.000000	1.13.	1200.000000	73. 2.	12.000000	*** 4.	2.740000	4. 2.	15.000000	
4. 3.	1200.000000	4.13.	1200.000000	4.14.	1.000000	4.16.	15.000000	5. 2.	15.000000	5. 3.	1200.000000	
5.13.	1200.000000	5.14.	1.000000	5.16.	15.000000	6. 2.	15.000000	6. 3.	1200.000000	6.13.	1200.000000	
6.14.	1.000000	6.16.	15.000000	7. 2.	15.000000	7. 3.	1200.000000	7.13.	1200.000000	7.14.	1.000000	
7.16.	15.000000	*** 2.	4.000000	*** 3.	2500.000000	*** 4.	1.500000	*** 5.	0.600000	*** 6.	0.500000	
*** 9.	90.000000	***10.	10.000000	***13.	2500.000000	***15.	2500.000000	*** 7.	0.001590	*** 2.	4.000000	
*** 3.	2500.000000	*** 4.	1.500000	*** 5.	0.600000	*** 6.	0.500000	*** 9.	90.000000	***10.	10.000000	
***13.	2500.000000	***15.	2500.000000	*** 7.	0.001590	*** 8.	1.400000	*** 2.	4.000000	*** 3.	2500.000000	
*** 4.	1.500000	*** 5.	0.600000	*** 6.	0.500000	*** 9.	90.000000	***10.	10.000000	***13.	2500.000000	
***15.	2500.000000	*** 7.	0.001590	51. 2.	8.000000	69. 2.	8.000000	21. 2.	0.700000	21.16.	15.000000	
*** 2.	0.700000	2.14.	3.000000	*** 2.	105.000000	*** 4.	0.300000	33. 3.	1000.000000	33.13.	1000.000000	
33. 9.	50.000000											
EQDAT COMP CHGS-->	89. 4.	2.000000	69. 6.	0.320000	69. 7.	8.000000	70. 5.	18.000000	70. 6.	18.000000	69. 5.	0.320000
89. 2.	1.000000	89. 4.	2.000000	89. 5.	5.450000	89. 6.	5.450000	89. 7.	15.000000	90. 2.	1.000000	
90. 4.	2.000000	90. 5.	42.000000	90. 6.	42.000000	90. 7.	15.000000					
PARAMETER CHGS-->	11.	4.500000	10.	5.250000	12.	5.250000	18.	0.334000	28.	0.015000		

DATE PRINTED: 01/21/82

Costs of Production for Fresh Market Staked Tomatoes - Summer harvest 1981  
Tulare County By Vincent Schweers, Farm Advisor & P. Thomas, SRA  
Yield: 2000 cartons/acre (1000 20 lb and 1000 30 lb cartons)

Based on 20 acres of tomatoes on 320 acre farm  
Furrow irrigation: 48 ac.in. per year 4500 plants/acre  
Land ownership basis

Additional Notes and Assumptions:

1. Land preparation:
  - September: Custom Rip \$45.00/acre
  - October and November: Tandem disc, 12' and spike tooth harrow, 12'  
pulled by 60 hp tractor - 1 pass over field each month
  - December: 4 wheel land plane, 12'x45' pulled by 60 hp tractor  
- 2 passes over field
2. Pre-plant fertilizer in October:
  - Applied before 1st discing in October.
  - Manure (materials & application) 7 tons/acre @ \$10.00/ton = \$70.00/acre
3. Fumigate for nematodes in October:
  - Fumigation is after October discing.
  - Materials & application \$70.00/acre
4. Herbicide in January:
  - Materials: Pre-plant herbicide \$20.00/acre
  - Application: custom by air 5.00/acre
5. Plant in February:
  - Row spacing: 44" to 48" Assuming 3 acres/hr to plant.
  - Transplants: 4500 plants/acre @ \$.053/plant = \$238.50/acre
  - Transplanter, 4 row, 15' pulled by 60 hp tractor - 1 pass over field
  - Crew labor - 8 on transplanter (2/row)
    - 4 additional (1/row) walk behind transplanter to straighten  
plants and fill skips  
1/3 hr/acre x 4 crew @ \$4.50/hr = \$6.00/acre
    - 4 additional to pull plants from flats and place them in  
picking buckets to go to the planter. Pulling is done  
in the field near planter.  
1/3 hr/acre x 4 crew @ \$4.50/hr = \$6.00/acre
  - Starter fertilizer: 1 gal of 10-34-0 per 100 gal water needed for 1200 plants  
3.75 gal/acre @ \$1.62/gal = \$6.08/acre
6. Capping in February:
  - 4 hotcapping machines used - 1 per row
  - Materials: Super hotcaps 4500/acre @ \$.106/cap = \$477.00/acre
  - 4 hotcappers, 4', each pulled by a 15 hp tractor
    - 1 pass over field total (each covers 1/4 of the field)
  - Crew labor - 4 on each hotcapper
7. Pest control:
  - February: Materials - cut worm bait \$15.00/acre
    - Application - same time as planting (attachment on back of transplanter)
  - April: Materials - Insecticide (general pests and aphids) \$16.00/acre
    - Application - custom, by air \$6.00/acre

May: Materials - Insecticide, fruit worm control \$16.00/acre  
 Application - custom, by air \$6.00/acre  
 June: Materials - Insecticide, fruit worm control  
 \$16.00/acre x 3 applications = \$48.00/acre  
 Application - custom, by air, approx. 1 week apart  
 \$6.00/acre x 3 applications = \$18.00/acre  
 July: Materials - Insecticide, fruit worm control \$16.00/acre  
 Application - custom, by air \$6.00/acre  
 Total pest materials \$111.00/acre  
 Total air application 36.00/acre

8. Frost protection in February and March:

Flatbed trailer pulled by 40 hp tractor used to put wind machines and orchard heaters in the field in February and pick them up in April.

40 orchard heaters per acre \$18 each

2 wind machines (1 for each 10 acres)

Labor to move and handle equipment and light heaters:

February 10 hrs/acre @ \$4.50/hr = \$ 45.00/acre

March 5 hrs/acre @ \$4.50/hr = 22.50/acre

\$ 67.50/acre

The two wind machines might operate in an average year, 7-8 nights, 3 hours each night. For this budget assuming one wind machine for 10 acres run 12 hrs for each month Feb and March or 1.2 hrs/acre each month

9. Open and remove caps:

March: Labor to open 20 hrs/acre @ \$4.50/hr = \$90.00/acre

Caps are opened 2 to 3 times enlarging the hole each time.

April: Labor to remove 25 hrs/acre @ \$4.50/hr = \$112.50/acre

10. Pinch suckers in March:

Suckers are pinched at the same time as the last opening of hotcaps

25 hrs/acre @ \$4.50/hour = \$112.50/acre

11. Set and remove stakes in March and August:

Flat bed trailer pulled by 40hp tractor used to haul stakes in March and August.

March: set stakes labor 25 hrs/acre @ \$4.50/hr = \$112.50/acre

August: remove stakes labor 25 hrs/acre @ \$4.50/hr = 112.50/acre

\$225.00/acre

Stakes: 2520 @ \$.32 each (8 year life)

12. Fertilize and cultivate:

March: 1 fertilizer application + cultivation

complete fertilizer 16-16-16 150 lbs/acre (24 lbs N/acre)

@ \$.123/lb = \$18.45/acre

April: 1 cultivation (no fertilizer applied)

1 fertilizer application + cultivation

complete fertilizer 16-16-16 150 lbs/acre (24 lbs N/acre)

@ \$.123/lb = \$18.45/acre

May: 1 fertilizer application + cultivation

ammonium sulfate 250 lbs/acre (50 lbs N/acre)

@ \$.069/lb = \$17.25

Application: Dry fertilizer applicator, 8' and 2 row cultivator, 8' pulled together by 40hp tractor - 1 pass over field each month



## 13. Ammonium nitrate:

Put in water system in 5 irrigations  
 50 lbs/acre (10 lbs N/acre) @ \$ .077/lb = \$3.85/acre each irrigation  
 Last of May - 1 irrigation  
 June - 2 irrigations  
 July - 2 irrigations

## 14. Tie up plants in April through June:

Labor:	April	25 hrs/acre	@ \$4.50/hr	= \$112.50/acre
	May	40 hrs/acre	@ \$4.50/hr	= 180.00/acre
	June	15 hrs/acre	@ \$4.50/hr	= 67.50/acre
		<u>80 hrs/acre</u>		<u>\$360.00/acre</u>
Twine:	April	23.5 lbs/acre	@ \$2.50/lb	= \$ 58.75/acre
	May	37.5 lbs/acre	@ \$2.50/lb	= 93.75/acre
	June	14.0 lbs/acre	@ \$2.50/lb	= 35.00/acre
		<u>75.0 lbs/acre</u>		<u>\$187.50/acre</u>

## 15. Field toilets:

2 toilets for the total 20 acres of tomatoes  
 \$20.00/month + 20 acres = \$1.00/acre each month  
 \$1.00/ month x 6 months (March through August) = \$6.00/acre

## 16. Irrigation:

Furrow irrigation system  
 Pump 15hp, 100 feet lift, 300 gal/min = .7 ac.in./hour  
 Irrigation labor - 1/3 hour per application/acre

20 irrigations broken down as follows:

March	1x	4 ac.in. total
April	1x	4 ac.in. total
May	4x	12 ac.in. total
June	6x	12 ac.in. total
July	8x	16 ac.in. total
		<u>48 ac.in. total</u>

## 17. Irrigation district tax:

\$6.00/acre paid in December

## 18. Harvest:

Yield:	June	July	August	Total
20 lb carton (2 layer)	50	900	50	1000
30 lb carton (3 layer)	50	900	50	1000

Price: 20 lb carton ranges from \$4.00 to \$9.00/carton  
 30 lb carton ranges from \$5.00 to \$10.00/carton

Tulare county is usually one of the first in the state with tomatoes and the price at the beginning of the harvest may be high. As other areas start harvesting the price will begin to fall. Growers may choose to stop picking when the price is less than the harvest cost per carton.

## Bin trailer pulled by 40hp tractor:

28 rows harvested at a time (105' covered) - 20 pickings

June - 2 passes in field

July - 16 passes in field

August - 2 passes in field

Approx. .29 hrs/ac each pass x 20 passes = 5.8 hrs/acre total

## Harvest Labor:

	Hours/acre				\$/hour	\$/acre
	June	July	August	Total		
Supervisor-harvest	6	22	2	30	5.25	157.50
Hand harvest	100	500	50	650	4.50	2925.00
Supervisor-sort	6	22	2	30	3.90	117.00
Sorting	18	200	7	225	3.60	810.00
Hauling	2.5	45	2.5	50	4.50	225.00
Lid and stack	2	26	2	30	4.50	135.00
Totals	134.5	815	65.5	1015		4369.50

## Other harvest costs:

	Per carton costs			\$/acre
	20 lb carton	30 lb carton	Average	
Wax contract	.015	.025	.02	40
Packing	.16	.24	.20	400
Cartons	.85	.90	.875	1750

19. 40hp and 60hp tractors are diesel cost of diesel = \$ .96/gal  
 15hp tractors are gas cost of gas = 1.20/gal

## 20. Buildings and Equipment:

Farm Shop	3000 sq. ft.	\$42,120
Tools and shop equipment		12,284
Packing shed		10,000
Fuel tank	550 gal	468

40% of above costs allocated to tomatoes.

## 21. Labor rates include benefits:

Tractor	\$5.25/hr
Crew	4.50/hr
Irrigators	5.25/hr

22. Bookkeeping and misc. office: 1.5% of total variable costs

## 23. Land owned:

Land value	\$4500/acre	-	Land tax	\$23/acre
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## 24. Machinery costs calculated by computer:

For implements, the width, speed, field efficiency and number of passes through the field are all used in determining the number of hours necessary to complete and operation. Tractor hours are then calculated by taking into consideration all implements pulled.

Per hour cost of depreciation, interest, taxes, insurance, repairs, fuel, and lube are calculated by the computer using purchase price, annual hours of usage, years of life, etc. and this rate is multiplied by the total hours of usage for each machine.