



PROCESSING TOMATOES MACHINE HARVEST

1993

ITEM	EXPLANATION	PRICE PER UNIT	YIELD/ACRE (Tons/A) 1/				
			20	25	30		
RECEIPTS			\$65.00 /T.	\$1,300.00	\$1,625.00	\$1,950.00	
VARIABLE COSTS							
Plants	12500 /A.	\$21.00 /M.	263.00	263.00	263.00		
Fertilizer 2/							
Starter(10-34-0)	5 gal.	\$1.10 /gal.	6.00	6.00	6.00		
N (lbs.)	60 lb/A.	\$0.22 /lb.	13.00	13.00	13.00		
P2O5 (lbs.)	175 lb/A.	\$0.25 /lb.	44.00	44.00	44.00		
K2O (lbs.)	275 lb/A.	\$0.12 /lb.	33.00	33.00	33.00		
Lime (lbs.)	1000 lb.	\$13.00 /T.	7.00	7.00	7.00		
Pesticides 3/							
Poast	0.18 gal.	\$50.00 /gal.	9.00	9.00	9.00		
Sencor-Lexone	1.5 lb.	\$25.00 /lb.	38.00	38.00	38.00		
Treflan	0.25 gal.	\$32.00 /gal.	8.00	8.00	8.00		
Copper	2 gal.	\$10.00 /gal.	20.00	20.00	20.00		
Dyrene	12 lb.	\$5.25 /lb.	63.00	63.00	63.00		
Bravo	2 gal.	\$47.00 /gal.	94.00	94.00	94.00		
Sevin 80S	4 lb.	\$3.75 /lb.	15.00	15.00	15.00		
Thiodan 3 EC	0.25 gal.	\$35.00 /gal.	9.00	9.00	9.00		
Ethephon	0.50 gal./acr	\$55.00 /gal.	21.00	21.00	21.00		
	on 75% of acres						
Custom Spraying	7 sprays	\$5.50 /A.	39.00	39.00	39.00		
Hired Labor 4/							
Setting	7 hrs.	\$6.00 /hr.	42.00	42.00	42.00		
Hoeing	7 hrs.	\$6.00 /hr.	42.00	42.00	42.00		
Sorting	15 hrs.	\$6.00 /hr.	90.00	90.00	90.00		
Crop Insurance		\$20.00 /A.	20.00	20.00	20.00		
Inspection		\$0.30 /T.	6.00	8.00	9.00		
Fuel, Oil, Grease 5/			33.00	33.00	33.00		
Repairs			51.00	51.00	51.00		
Custom Haul 6/		\$7.00 /T.	140.00	175.00	210.00		
Unemploy. Ins.	\$174 /A.	4.5%	8.00	8.00	8.00		
Transportation for labor 7/			3.00	3.00	3.00		
Miscellaneous 8/			8.00	8.00	8.00		
Int. on Oper. Cap. 9/	6 mo.	10%	31.00	31.00	31.00		
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TOTAL VARIABLE COSTS - Per Acre 10/			1156.00	1193.00	1229.00		
- Per Ton 10/			57.80	47.72	40.97		
FIXED COSTS							
Housing Charge 11/			62.00	62.00	62.00		
Labor Charge	14	16	18	\$7.00 /hr.	98.00	112.00	126.00
Mach. & Equip. Charge 5/					325.00	325.00	325.00
Land Charge		Rent			100.00	150.00	200.00
Management Charge		5% of Gross			65.00	81.00	98.00
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TOTAL FIXED COSTS			650.00	730.00	811.00		
TOTAL COSTS - Per Acre			\$1,806.00	\$1,923.00	\$2,040.00		
- Per Ton			90.30	76.92	68.00		
RETURN ABOVE VARIABLE COSTS			144.00	432.00	721.00		
RETURN ABOVE TOTAL COSTS			(\$506.00)	(\$298.00)	(\$90.00)		

OSU
Farm
Management
Extension

Prepared by
Gary Schnitkey

Acrobat
Conversion by
Tim Rhodus



NOTES FOR PROCESSING TOMATOES - MACHINE HARVEST

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- 1/ With a mechanical harvester, the risk of being unable to harvest some acres or loss of quality due to adverse weather must be considered. Acres lost due to inability to harvest will increase costs to be recovered from harvested acres and will reduce budgeted receipts by number of tons lost.
- 2/ Assume maintenance fertilizer only.
- 3/ Various combinations and kinds of chemicals are used. Other recommended herbicides and insecticides are also used. See current OCES Bulletins 648, 701, and 672.
- 4/ Labor rate includes Social Security and Worker's Compensation.
- 5/ Machine costs reflect the overhead expenses of a bedder, harvester, dump cart, tractor, and transplanter. Irrigation equipment is not included.
- 6/ Some companies credit the grower for some hauling charges.
- 7/ 1600 miles/ 4 acres / worker x 50% usage on tomatoes at \$0.015 / mile = \$3.00 per acre.
- 8/ Includes supplies, utilities, soil tests, small tools, etc.
- 9/ Does not include interest on harvesting costs, inspection cost, plant cost or seed, or hauling cost. Interest costs would be reduced by the interest saved due to any advanced payments received. Interest charges are for 6 months at 10% interest.
- 10/ If direct seeding is used, deduct plant cost and setting labor costs and add cost of seed, other seeding costs, and changes in herbicide program.
- 11/ Housing cost: \$40000 value x 20.75% overhead x 50% on tomatoes = \$4150. Trash pickup, utilities, land charge, water = \$1000: \$1000 x 50% usage on tomatoes = \$500. plus \$500 = \$4650 / 15 workers annual capacity of the housing = \$310 /wrkr housed for tomatoes. #310 x 18 workers / machine / 90 acres / machine = \$62 per machine harvested acre.
Some cost sharing on housing investment may be available through Agricultural Labor Camp Improvement funds.