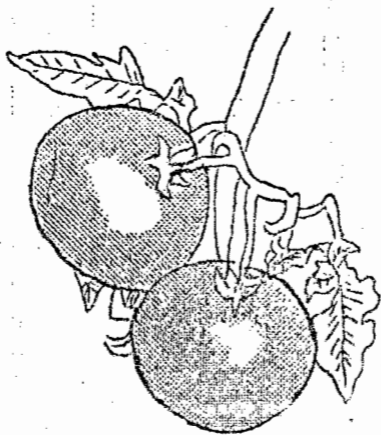


PSP Perm  
TM-SI-74

tomatoes  
mature green  
sample costs  
and  
production



Agricultural Extension Service  
University of California  
Imperial County  
Court House, El Centro

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Cost Data Sheet No.

MATURE GREEN TOMATOES, OPEN GROWN--SAMPLE PRODUCTION COSTS

Mechanical operations at custom rates. Hand labor at \$3.00 per hour (\$2.53 plus Social Security, unemployment insurance, transportation, supervision and fringe benefits).

Yield - 8.0 tons or 533 - 30# boxes.

OPERATION	Custom Rate	MATERIALS		HAND LABOR		SAMPLE COSTS Per Acre
		Type	Cost	Hours	Dollars	
<b>LAND PREPARATION</b>						
Plow or subsoil	\$12.00					\$ 12.00
Disc 2x	3.50					7.00
Border & break border	4.00					4.00
Flood		Water	2.00		2.00	4.00
Fertilize	2.50	400# 11-48-0	46.00			48.50
Disc 2x	3.50					7.00
Landplane 2x	4.00					8.00
Make beds	8.00					8.00
<b>TOTAL LAND PREPARATION</b>						<b>\$ 98.50</b>
<b>GROWING PERIOD</b>						
Plant & shape beds	7.00	Seed 1#	16.00			23.00
Block & thin 2x				22	66.00	66.00
Cultivate 3x	7.00					21.00
Fertilize - side-dress 3x	5.50	450# N-P-K	77.50			94.00
Hoe 2x				10	30.00	30.00
Layby	2.50	Herbicide	15.00			17.50
Irrigate 9x		Water 6 ac ft	16.20	12	36.00	52.50
Insect Control 12x	3.00	Insecticides	70.00			106.00
<b>GROWING PERIOD</b>						<b>\$410.00</b>
<b>GROWING PERIOD &amp; LAND PREP COSTS</b>						<b>\$508.50</b>
Land Rent						\$125.00
Cash overhead - 10% of preharvest costs and land rent						63.85
<b>TOTAL PREHARVEST COSTS</b>						<b>\$696.85</b>
<b>HARVEST</b>						
Contract @ \$2.90 per 30# box, including picking, hauling, packing and selling						\$1545.70
<b>TOTAL ALL COSTS AND SELLING</b>						<b>\$2242.55</b>

Cost per box = \$4.21

**YIELDS**

Yields depend on the number of picks that market conditions warrant. County averages have been from 5 to over 11 tons, although yields of over 15 tons per acre are possible. The Agricultural Commissioner's reports show seasonal average price per ton during the past five years varied from a low of \$175.89 in 1972 to a high of \$259.81 in 1971.

**PLANTING DATES**

Open tomatoes are planted from early January through February 15 for an early June harvest. A small acreage may also be seeded in July or August for harvest in winter.

**VARIETIES**

Earlypak 7 and Ace are the principal varieties grown. However, other varieties resistant to Fusarium, Verticillium, and nematodes are planted on small acreages.

## SOILS

Medium to heavy soils that are well drained are generally best. Such soils maintain their moisture content longer and more uniformly than sandy soils.

## IRRIGATION

Moisture should be maintained as uniformly as possible. Large fluctuations in soil moisture or water stress conditions can be detrimental to plant and fruit development.

## FERTILIZERS

Before listing, 20-40 pounds nitrogen and 100-200 pounds phosphate are broadcast, although banding of reduced fertilizer rates under the seed is also practiced. After thinning, 150-200 pounds of N are sidedressed, depending on the previous crop. Excess nitrogen results in delayed and uneven maturity.

## PESTS AND DISEASES

The primary insect problems are tomato fruit worms, armyworms, thrips, aphids, and pinworms. Curly top virus and fusarium wilt are the chief diseases.

## HARVESTING

Most of the fruit is picked in the mature green stage, placed in field trailers or bins and hauled to shed for washing, cooling and packing.

Prepared by  
Imperial County  
Agricultural Extension Staff

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California Agricultural Extension.