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## **Family Avocado Orchards**

***Size depends upon yield, costs of production, returns, and family income needed***

### **Harold E. Wahlberg**

About 18 debt-free acres of avocados in Orange County with average yield will support a family of four if returns are 8¢ or more per pound.

If the yield is exceptional only five acres may be necessary—but a mortgage carried on the farm will increase the acreage required.

Exact farm size needed to support a grower's family depends upon several variable factors. When these factors are combined as they apply to a particular grower, a basis for estimating the farm size necessary for his family is derived.

One of these items is yield per acre; another is cost of production; third is returns per pound and, finally, there is the income needed by the family.

Mortgaged or paid up property must be reckoned when estimating income needed by the family. If the grower has to meet a mortgage, an added acreage will be needed. In the accompanying table, a mortgage of \$750 per acre at 4% interest and amortized in 20 years is used as an example.

### **Yield per Acre**

Climate, the soil in which the grove is planted, variety and strain selected, and management practices affect yield.

Data gathered over 19 years in Orange County showed a wide range of yields. The county average was 3,400 pounds per acre. This average was the basis for the estimate that an 18-acre debt-free avocado farm will support a family of four.

Production cost studies of 20 commercial plantings in Orange County showed an average yield of 4,500 pounds per acre for the past 10 years.

A good yield of 6,000 pounds per acre has been achieved in good locations. The avocados were of suited varieties on superior soils.

An exceptional yield of 9,000 pounds per acre has been attained in a few groves.

Each grower may select the yield level most likely to be attained by the variety and in the location he has with the management he applies.

### **Cost of Production**

Estimates drawn from the long-time avocado cost studies are useful in finding cost of production. Average cost per acre can be adapted to the various levels of yield per acre.

The greater the yield, the higher the harvesting costs. Total costs were \$148 per acre for a 3,400-pound yield. They ranged up to \$195 for a 9,000-pound yield.

Records show that the average grower puts in about 50 hours of his own labor per acre per year. The going rate of labor today is \$1.00 per hour. Several years ago it was 35¢ to 45¢ per hour. At the recent Congressional minimum labor value of 75¢ per hour, the grower's labor amounts to \$38.00 per acre per year. This is to be added to the fruit income per acre in computing the total farm income.

### Returns per Pound

Greater production and marketing of avocados are ahead. Planting figures show 2,000 acres yet to come into bearing in southern California.

The Table Summarizes the Various Factors Described in Columns Under the Four Levels of Expected Yield Per Acre.

	Exceptional yield	Good yield	Average yield cost study	Average yield county
Yield per acre . . . .	9,000#	6,000#	4,500#	3,400#
Returns per pound . .	8c	8c	8c	8c
Income per acre . . . .	\$720	\$480	\$360	\$272
Cash costs and depre. . .	\$195	\$170	\$158	\$148
Capital and mgt. income .	\$525	\$310	\$202	\$124
50 hours operators labor . . . . .	\$ 38	\$ 38	\$ 38	\$ 38
Total farm income . . . . .	\$563	\$348	\$240	\$162
Acres to earn \$3,000 (free of debt) . . . . .	5	9	12.5	18
If debt of \$750 per acre amortize at 7.7% (4½% at 20 yrs.) . .	\$ 58	\$ 58	\$ 58	\$ 58
Net for living costs . . . . .	\$505	\$290	\$182	\$104
Acres to earn \$3,000 . .	6	10	16	29

Since 1930, 11 years out of 19 brought returns of 4.3¢ to 8.6¢ per pound. The other eight years, because of war and short crops, the price ranged from 10.6¢ to 26.1¢ per pound to the grower. The average for the high years was 16.4¢ per pound.

Estimates are, that with the impact of supply of demand, 8¢ per pound may be an average farm price for avocados in the future.

### Cost of Living

The cost of living factor differs with each family. In the accompanying table, the figure of \$3,000 is used as an estimate of income needed by a family of four, based on a 1948 study made by the Agricultural Extension Service.

*Harold E. Wahlberg is County Director of Extension and Farm Advisor, Orange County, University of California College of Agriculture.*