

1973

FRENCH PRUNE

Orchard Development Costs in the Southern San Joaquin Valley

Cost Analysis Worksheet Showing Sample Costs

Prepared by: Lyndon C. Brown, Farm Advisor, Kings County; L. Todd Browne, Farm Advisor, Fresno County; Kenneth W. Hensch, Farm Advisor, Kern County; G. Steven Sibbett, Farm Advisor, Tulare County; and Edward A. Yearly, Farm Advisor-Statewide, Parlier.

Agricultural Extension University of California

COST ANALYSIS WORKSHEET: French Prune Orchard Establishment Costs, 1973.

	COSTS PER ACRE					
	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year
Yield in dry tons (3 tons fresh to 1 ton dry)	-	-	-	0.15	0.75	1.5
PRE-HARVEST CASH COSTS						
Land preparation: subsoil, contract	\$ 30.00	\$	\$	\$	\$	\$
Disc and float: 4 hours labor + 4 tractor-hours	16.20					
Trees: 108 @ \$1.10 (+2, 2nd year; 1, 3rd year)	118.80	2.20	1.10			
Survey, dig holes, and plant trees: 108 @ 35¢ (+2, 2nd year; 1, 3rd year @ 90¢ each)	37.80	1.80	.90			
Training, tying, and pruning	5.20	11.50	13.80	17.25	23.00	30.00
Whitewash trees 1st year	6.90					
Tillage and irrigation preparation: 6 hours labor + 6 tractor-hours	24.30	24.30	24.30	24.30	24.30	24.30
Irrigation labor: 4 hours labor, 1st and 2nd years; then 6 hours labor per year	9.20	9.20	13.80	13.80	13.80	13.80
Water: @ \$5.50/acre-foot + district tax @ \$6.00	11.50	11.50	14.25	17.00	22.50	22.50
Fertilizer: nitrogen @ 11¢/pound applied	1.32	1.32	2.64	2.64	2.64	2.64
Pest control materials			2.00	4.00	6.00	12.00
Spray: application, contract			2.50	5.00	7.50	10.00
Misc. labor and materials, including 1 tractor-hour	16.00	16.00	16.00	16.00	16.00	16.00
County taxes	20.00	20.00	20.00	20.00	20.00	32.00
Repairs, except tractor	10.00	10.00	10.00	10.00	10.00	10.00
Office and business costs	18.43	6.47	7.28	8.74	13.47	19.84
Total Pre-Harvest Cash Costs	\$ 325.65	\$ 114.29	\$ 128.57	\$ 138.73	\$ 159.21	\$ 193.08
HARVEST COSTS						
Harvest and dehydrate: @ \$35/ton fresh basis				\$ 15.75	\$ 78.75	\$ 157.50
Total Harvest Costs				\$ 15.75	\$ 78.75	\$ 157.50
Total Cash Costs	\$ 325.65	\$ 114.29	\$ 128.57	\$ 154.48	\$ 237.96	\$ 350.58
DEPRECIATION						
Irrigation system: \$250 cost, 15-year life	\$ 16.67	\$ 16.67	\$ 16.67	\$ 16.67	\$ 16.67	\$ 16.67
Buildings and equipment: \$120 cost, 12-year life	10.00	10.00	10.00	10.00	10.00	10.00
Tractor: @ \$1.20/hour	12.00	7.20	7.20	7.20	7.20	7.20
Total Depreciation	\$ 38.67	\$ 33.87	\$ 33.87	\$ 33.87	\$ 33.87	\$ 33.87
INTEREST ON INVESTMENT @ 7%						
Irrigation system: 1/2 cost, \$125	\$ 8.75	\$ 8.75	\$ 8.75	\$ 8.75	\$ 8.75	\$ 8.75
Buildings and equipment: 1/2 cost, \$60	4.20	4.20	4.20	4.20	4.20	4.20
Tractor: @ 70¢/hour	7.00	4.20	4.20	4.20	4.20	4.20
Land: @ \$1,000/acre	70.00	70.00	70.00	70.00	70.00	70.00
Interest on accumulated costs		31.80	50.50	71.50	92.64	108.51
Total Interest on Investment	\$ 89.95	\$ 118.95	\$ 137.65	\$ 158.65	\$ 179.79	\$ 195.66
TOTAL COST FOR THE YEAR	\$ 454.27	\$ 267.11	\$ 300.09	\$ 347.00	\$ 451.62	\$ 580.11
Credit for crop: @ 15¢/pound dry				\$ 45.00	\$ 225.00	\$ 450.00
Net Cost for the Year	\$ 454.27	\$ 267.11	\$ 300.09	\$ 302.00	\$ 226.62	\$ 130.11
ACCUMULATED NET COST	\$ 454.27	\$ 721.38	\$1,021.47	\$1,323.47	\$1,550.09	\$1,680.20

Costs are for a 20- by 20-foot planting with 108 trees per acre. Based on labor @ \$2.30 and \$2.65 per hour; medium-wheel tractor per hour cash costs @ \$1.40; depreciation @ \$1.20; and interest @ \$.70.

ABOUT THIS SHEET

This cost data sheet is designed for use as a guide to determine the production costs for a specific prune orchard. The figures are based on good management practices; they are not intended to represent industry averages. However, each planting varies according to soil type, availability of water, tree variety, and planting distances.

Soils. In the southern San Joaquin Valley, prunes are usually grown on alluvial soils. The areas of most concentrated production include Visalia, Woodville, Porterville, and the region north of Bakersfield. Although prune trees tolerate a wide variety of soil conditions, heavy, shallow, or excessively saline or alkaline soils rarely produce optimum crops.

Water Availability. Irrigation must be used to supply sufficient water to produce maximum crops and to provide for adequate tree growth.

During dry years, there may be areas where ditch water is not available. For this reason, it is best to select locations where there is good quality well water available.

Variety. The prune industry is geared to processing and marketing French-type prunes. At the present time, varieties other than French or French-types are not being solicited by the trade.

Planting Distance. Space prunes planted on deep, well-drained soils at a minimum of 18 by 18 feet. It is desirable to allow enough area for mechanical harvesting operations and maximum tree growth.

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