

PEAR

ORCHARD COSTS
FROM
PLANTING TO PICKING

UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXTENSION SERVICE
TEHAMA COUNTY

ESTABLISHING A PEAR ORCHARD IN TEHAMA COUNTY - 1956

This cost study was designed to give an idea of expected costs per acre involved in establishing a pear orchard. The figures represent typical costs under assumed conditions. These conditions are as follows: 40 acres of level land, valued at \$500.00 per acre, 38 acres of which are planted to trees on 20 foot centers with 109 trees per acre.

Irrigation water is supplied by one of the local water districts at a cost of \$5.00 per acre per year. A wheel tractor, 100 gallon spray rig, and all other needed tilling and digging implements were computed at retail value the first year.

The costs of a fertilizer spreader and a 400 gallon air carrier ~~sprayer~~ were added the third year.

Major variations from these per acre costs will occur with variation of size of planting, use of machinery already on hand, and incidence of disease and insect pest infestation.

The total cost per acre will remain about constant from the fifth year to self-sustaining expected between the sixth to the eighth year depending on variety, vigor, cultural practices, and other factors.

SAMPLE COSTS TO ESTABLISH PEAR ORCHARDS
First Year

Operation	Dates	Hours Per Acre	CASH AND LABOR COST			YOUR COST		Cost For _____ Ac.
			Labor	Equipment	Materials	Total	Per Acre	
Disc	Nov.	.5	.50	.50			1.00	
Mark & stake	Jan.	3.0	3.00		Stakes 109 @ 5¢	5.45	8.45	
Dig holes	Jan.-Feb.	1.6	1.60	1.00			2.60	
Plant & prune	Jan.-Feb.	5.0	5.00		Trees 109 @ 75¢	82.00	87.00	
Watering	Jan.-Feb.	5.0	5.00	5.00			10.00	
Disc twice	April	1.0	1.00	1.00			2.00	
Fertilize	April	2.0	2.00		Nitrogen 28 lbs. @ 15¢	4.20	6.20	
Furrow 4 times	March-Aug.	.8	.80	.80			1.60	
Irrigate 8 times	April-Sept.	4.0	4.00	.50	Water	5.00	9.50	
Hoe	May	6.0	6.00				6.00	
Disc furrows 3 times	May-Aug.	.7	.75	.75			1.50	
Spray		1.0	1.00		Miticide	.25	1.25	
Disc	October	.5	.50	.50			1.00	
Plant cover crop	October	.2	.20	.15	Seed 30 lbs. @ 12½¢	3.75	4.10	
Harrow	October	.3	.30	.20			.50	
Taxes						8.00	8.00	
Misc.			2.25	.60		1.45	4.30	
Total			34.00	11.00		110.00	155.00	
Investment	Per Acre	Interest & Depreciation						
Land	\$500.	\$25.						
Bldgs.	130.	6.						
Irrigation	50.	3.						
Equipment	120.	16.						
Total	800.							
							50.00	

Total Cost Per Acre

205.00

SAMPLE COSTS TO ESTABLISH PEAR ORCHARD
Second Year

Operation	Dates	Hours Per Acre	CASH AND LABOR COST			YOUR COST		Cost For Ac.
			Labor	Equipment	Materials	Total	Per Acre	
Prune & train	Nov.-Dec.	4.0	4.00				4.00	
Replant 2%	January	.2	.20	.10	Trees 2 @ 75¢	1.50	1.80	
Fertilize	Dec.-Feb.	2.5	2.50		Nitrogen 30 lb. @ 15¢	4.50	7.00	
Hoe twice	Feb.-June	10.0	10.00				10.00	
Disc cover crop twice	April	1.0	1.00	1.00			2.00	
Furrow 3 times	April-Aug.	.6	.60	.60			1.20	
Irrigate 7 times	April-Sept.	3.5	3.50	.50	Water	5.00	9.00	
Spray	April	1.0	1.00	1.00	Copper	1.00	3.00	
Disc furrows twice	June-Aug.	.5	.50	.50			1.00	
Disc	October	.5	.50	.50			1.00	
Plant cover crop	October	.2	.20	.15	Seed 30 lbs. @ 12½¢	3.75	4.10	
Harrow	October	.3	.30	.20			.50	
Taxes						8.00	8.00	
Misc.			1.70	.45		.25	2.40	
Total			26.00	5.00		24.00	55.00	
Investment	Per Acre	Interest & Depreciation						
Land	\$500.	\$25.						
Bldgs.	130.	6.						
Irrigation	50.	3.						
Equipment	120.	16.						
Trees	205.	10.						
Total		1000.					60.00	
Total Cost Per Acre							115.00	

SAMPLE COST TO ESTABLISH PEAR ORCHARD
Third Year

Operation	Dates	Hours Per Acre	CASH AND LABOR COST			YOUR COST		Cost For Ac.
			Labor	Equipment	Materials	Total	Per Acre	
Prune & train	Nov.-Dec.	12.0	12.00				12.00	
Replant 2%	January	.2	.20	.10	Trees 2 @ 75¢ 1.50		1.80	
Fertilize	Dec.-Feb.	.3	.25	.25	Nitrogen 50 lbs. @ 15¢ 7.50		8.00	
Hoe	June	6.0	6.00				6.00	
Disc cover crop twice	April	1.0	1.00	1.00			2.00	
Furrow twice	April-July	.8	.75	.75			1.50	
Irrigate 5 times	April-Sept.	5.0	5.00	.50	Water 5.00		10.50	
Spray	April	.7	.70	1.80	Copper 2.00		4.50	
Disc	July	.5	.50	.50			1.00	
Disc	October	.5	.50	.50			1.00	
Plant cover crop	October	.2	.20	.15	Seed 30 lbs. @ 12½¢ 3.75		4.10	
Harrow	October	.3	.30	.20			.50	
Taxes						8.00	8.00	
Misc.			2.60	.25		1.25	4.10	
Total			30.00	6.00		29.00	64.00	
Investment	Per Acre	Interest & Depreciation						
Land	\$500.	\$25.						
Bldgs.	130.	6.						
Irrigation	50.	3.						
Equipment	220.	16.						
Trees	315.	16.						
Total	<u>1,215.</u>			66.00				

Total Cost Per Acre

130.00

SAMPLE COSTS TO ESTABLISH PEAR ORCHARD
Fourth Year

Operation	Dates	Hours Per Acre	CASH AND LABOR COST			YOUR COST		Cost For _____ Ac.
			Labor	Equipment	Materials	Total	Per Acre	
Prune & train	Nov.-Dec.	15.0	15.00				15.00	
Remove brush	Nov.-Dec.	1.0	1.00	1.00			2.00	
Replant 2%	January	.2	.20	.10	Trees 2 @ 75¢	1.50	1.80	
Fertilize	Dec.-Feb.	.3	.25	.25	Nitrogen 50 lbs. @ 15¢	7.50	8.00	
Disc cover crop twice	April	1.0	1.00	1.00			2.00	
Furrow twice	April-July	1.0	1.00	1.00			2.00	
Irrigate 5 times	April-Sept.	5.0	5.00	.50	Water	5.00	10.50	
Spray	April	.7	.70	1.80	Copper	3.00	5.50	
Hoe	July	6.0	6.00				6.00	
Disc	July	.5	.50	.50			1.00	
Disc	October	.5	.50	.50			1.00	
Plant cover crop	October	.2	.20	.15	Seed 30 lbs. @ 12½¢	3.75	4.10	
Harrow	October	.3	.30	.20			.50	
Taxes						8.00	8.00	
Misc.			2.35	1.00		2.25	5.60	
Total			34.00	8.00		31.00	73.00	
Investment		Per Acre	Interest & Depreciation					
Land		\$500.	\$25.					
Bldgs.		130.	6.					
Irrigation		50.	3.					
Equipment		220.	27.					
Trees		445.	21.					
Total		1,345.					82.00	

Total Cost Per Acre

155.00

SAMPLE COSTS TO ESTABLISH PEAR ORCHARD
Fifth Year

Operation	Dates	Hours Per Acre	CASH AND LABOR COST			YOUR COST		Cost For Ac.
			Labor	Equipment	Materials	Total	Per Acre	
Prune & train	Nov.-Dec.	25.0	25.00				25.00	
Remove brush	Nov.-Dec.	2.0	2.00	2.00			4.00	
Fertilize	Dec.-Feb.	.3	.25	.25	Nitrogen 50 lbs. @ 15¢	7.50	8.00	
Disc cover crop twice	April	1.0	1.00	1.00			2.00	
Furrow twice	April-July	1.0	1.00	1.00			2.00	
Irrigate 5 times	April-Sept.	5.0	5.00	.50	Water	5.00	10.50	
Spray	April	.7	.70	1.80	Copper	3.00	5.50	
Disc	July	.5	.50	.50			1.00	
Disc	October	.5	.50	.50			1.00	
Plant cover crop	October	.2	.20	.15	Seed 30 lbs. @ 12½¢	3.75	4.10	
Harrow	October	.3	.30	.20			.50	
Taxes						8.00	8.00	
Misc.			1.55	.10		1.75	3.40	
Total			39.00	8.00		29.00	74.00	
Investment	Per Acre	Interest & Depreciation						
Land	\$500.	\$25.						
Bldgs.	130.	6.						
Irrigation	50.	3.						
Equipment	220.	27.						
Trees	585.	30.						
Total	<u>1,485.</u>			91.00				
Total Cost Per Acre							165.00	