

SAMPLE COSTS TO PRODUCE PEARS IN SONOMA COUNTY - SPRINKLER IRRIGATED1970

Based on an 80-acre orchard with a yield of 15 tons per acre. Man labor at \$2.20 and \$2.70 (includes Social Security and Compensation Insurance). Cash costs per hour: 30-40 HP wheel and crawler tractors \$1.40 and \$1.90; fork lift @ \$1.10; truck @ \$2.50 and sprayer @ \$4.50.

<u>PRE-HARVEST CASH COSTS:</u>	<u>Sample Costs</u>		<u>Your Cost</u>	
	<u>Per acre</u>	<u>Per Ton</u>	<u>Per Acre</u>	<u>Per Ton</u>
Pruning: 108 trees @ \$1.65 incl. Soc. Sec. and Comp. Ins.	\$178.20			
Brush Disposal: 3 man & 1 tractor hours	9.00			
Fertilize: once - 0.6 man & 0.5 tractor hours	2.57			
Fertilizer: 200 lbs. N @ 11¢	22.00			
Spray: 8 times, 5 hrs. man, tractor & sprayer	45.50			
Spray material	64.00			
Dust for blight: 12 times, 3.0 hrs. man & tractor	12.30			
Dust: 360 lbs. @ 10¢	36.00			
Cut blight and inspect: 5 man hours	11.00			
Irrigate: 4 times, 6 man hours	13.20			
Water: power to apply 2 acre feet @ \$4	8.00			
Cultivate: 4.5 man, 1.5 crawler & 3.0 wh. trac. hr.	19.20			
Misc. labor: 8 man, 1 tractor & 2 truck hours	25.50			
Misc. material	9.00			
County taxes	58.00			
Office, car, int. on oper. capital, etc.	63.08			
Repairs, except tractor, truck & sprayer	6.50			
<b>TOTAL PRE-HARVEST CASH AND LABOR COSTS</b>	<b>\$583.05</b>	<b>\$38.87</b>		
<u>HARVESTING COSTS:</u>				
Picking at \$7 per 1,000 lb. bin, includes Soc. Sec. & Comp. Ins.	210.00	14.00		
Move & load bins, supervise 9 man & 8 fork lift hr.	32.60	2.17		
Hauling: 5 hours, man & truck	26.00	1.74		
<b>TOTAL HARVESTING COSTS</b>	<b>\$268.60</b>	<b>\$17.91</b>		
<b>TOTAL CASH AND LABOR COSTS</b>	<b>\$851.65</b>	<b>\$56.78</b>		
<u>DEPRECIATION COSTS: (per acre on 80 acres)</u>				
Trees: cost \$1,800 - 40 years	45.00			
Bldgs. for equip. \$60-25 yrs;	2.40			
Irrig. facil. (sprinkler) cost \$260-Av. 16 years	16.25			
Tractors, truck, pickup & fork lift: cost \$300 - 12½ years	24.00			
Sprayer and duster: cost \$116 - 10 years	11.60			
Tillage & other equip: cost \$126 - 10 years	12.60			
<b>TOTAL DEPRECIATION COSTS</b>	<b>\$111.85</b>	<b>\$ 7.45</b>		
<b>TOTAL CASH AND DEPRECIATION COSTS</b>	<b>\$963.50</b>	<b>\$64.23</b>		
<u>INTEREST ON INVESTMENT @ 8%: (per acre on 80 acres)</u>				
Trees: On ½ cost (\$900)	72.00			
Bldgs. for equip.: on ½ cost (\$30)	2.40			
Irrig. facil. (sprinkler): on ½ cost (\$130)	10.40			
Tractors, truck, pickup & fork lift: ½ cost (\$150)	12.00			
Sprayer & duster: on ½ cost (\$58)	4.64			
Tillage & other equip.: on ½ cost (\$63)	5.04			
Land at \$1,500	120.00			
<b>TOTAL INTEREST ON INVESTMENT</b>	<b>\$226.48</b>	<b>\$15.10</b>		
<b>TOTAL COST OF PRODUCTION 1/</b>	<b>\$1,189.98</b>	<b>\$79.33</b>		

1// Does not include any cost for management. This is sometimes calculated as 5% of gross income.

PEAR GROWING IN YUBA-SUTTER COUNTIES

<u>1968 Acreage</u>	<u>Bearing</u>	<u>Non Bearing</u>
Yuba	1,080	500
Sutter	840	690
California	36,830	10,260

Oregon and Washington are important pear-growing states, raising one-third of the total coast pears. In normal crop years, approximately 20 per cent of the crop is shipped as market fruit, with 80 per cent going to the canneries for processing. Orchards under 15 years of age do not normally produce a high quality Bartlett for shipping purposes. Young pears will bear a light crop in the fifth year, but do not reach the break-even stage until the eighth or ninth year. Attempts to mechanize the pear harvest have been unsuccessful to date due to fruit damaged in the process. This is expected to be a factor in preventing the heavy over-plantings occurring in other tree crops. Many new orchards are being close-planted for labor saving and high production potential. There is both a state and federal marketing order for Bartlett pears.

Growing Conditions:

Pears develop into large productive trees on the deep river bottom soils. On the shallower soils, pears do poorly and these locations should be avoided. ~~Bacterial fire blight is the most serious disease affecting pears.~~ A combination of sprays, dusts and hand cutting is needed to control blight. A number of insects also must be controlled to produce first-grade fruit. This makes spraying one of the costly operations in pear growing. Pears are resistant to the soil-borne disease, oak root fungus which is very damaging to peaches and almonds.

Sample Cost Details:

Wages used in these costs include workmen's compensation, social security, and other expenses incidental to labor. Some dusts are applied with a ground rig and some by airplane in Yuba County. Airplane applications will increase the cost of dusting.

Operating Calendar:

Prune ----- December, January, February  
 Irrigate ----- May - September  
 Spray, dust ----- Mostly from April to July  
 Harvest ----- Start in early July and August

Agricultural Extension Service  
 Yuba-Sutter Counties  
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SAMPLE COSTS TO PRODUCE PEARS -- YUBA-SUTTER COUNTIES

30 acres of pears plus Labor: Skilled---\$2.25 Yield: 18 tons/acre Tractor Costs: 40 H.P. Wheel = \$ .90  
 50 acres of other orchard Unskilled-- 1.90 90 trees/acre (Cash): 55 H.P. Wheel = 1.20

Cultural Operations	Hours Per Acre	Cash and Labor Costs/Acre			Cost Per Acre	Cost Per Ton
		Labor	Fuel and Repairs	Materials		
Pruning	100	\$ 190.00	\$	\$	\$ 190.00	\$
Brush disposal	2	4.50	1.80		6.30	
Spray - 8 times	6	13.50	23.10	110.00	146.60	
Dust - 8 times	1.3	2.92	2.00	22.50	27.42	
Blight Cutting		11.25			11.25	
Fertilizer	0.6	1.35	.54	125 lbs. N @ 12¢	16.89	
Ridge up and knock down 3 times	1.1	2.47	1.32		3.79	
Irrigate - 5 times	8	15.20		8.25 power to pump	23.45	
Disc - 3 times - 2 ways	3	6.75	3.60		10.35	
Harvest and haul - contract @ \$17/ton					306.00	

Total Cultural and Harvest \$ 742.05 \$ 41.22

Miscellaneous overhead - 5% of above 37.10

TAXES 55.75

TOTAL CASH OVERHEAD 92.85

TOTAL CASH COSTS \$ 834.90 \$ 46.38

Management 72.00

INVESTMENT	PER ACRE	ANNUAL DEPRECIATION	INTEREST COST - 7%		
Land	\$ 1,200	\$	\$ 84.00		
Trees	2,400	60.00	84.00		
Irrigation system	200	10.00	7.00		
Buildings	150	7.50	5.25		
Equipment	610	61.00	21.35		
<b>TOTAL</b>	<b>\$ 4,560</b>	<b>\$ 138.50</b>	<b>\$ 201.60</b>	<b>\$ 340.10</b>	
<b>TOTAL COST PER ACRE</b>				<b>\$1247.00</b>	<b>\$ 69.27</b>
<b>COST PER TON WITH YIELD OF:</b>	<u>12 Ton</u>	<u>24 ton</u>			
	<b>\$92.82</b>	<b>\$57.32</b>			