

WN-VS-66-2

WALNUT PRODUCTION

Cost Analysis Work Sheet

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Cooperative Extension Work in Agriculture and Home Economics, U. S. Department of Agriculture, University of California, and County of Fresno cooperating.

ESTABLISHING A WALNUT ORCHARD

JUN 1 1966

Cost Analysis Work Sheet

Sample costs to establish a walnut orchard in Fresno County. Costs are based on 30' x 30' planting 48 trees per acre. Man labor at \$1.50 per hour total and equipment operator \$1.70. Medium wheel tractor per hour cash costs \$1.20, depreciation 60¢ and interest 30¢.

	1st Year	2nd Year	3rd Year	4th Year	5th Year	6th Year
Yield: Lbs. Per Acre					750	1200
PRE-HARVEST CASH COSTS:						
Land preparation: subsoil, contract	10.00					
Disc & float: 4 hrs. man & tractor	11.60					
Trees: 48 at \$3 for 6'-8'	144.00	2.88	1.44			
Survey, peg, dig holes, plant & prune trees: 48 at 25¢	12.00					
Stakes: 52 at 40¢ (10' stakes)	20.80					
Plant & prune replants		2.50	1.25			
Stake trees: 5 man hrs. 1 tractor hr.	8.90					
Training, tying, pruning	15.00	10.00	12.00	15.00	20.00	30.00
Whitewash trees 1st 3 yrs.	7.00	7.00	7.00			
Tillage & irrigation preparation						
6 hrs. man & tractor	17.40	17.40	17.40	17.40	17.40	17.40
Irrigation labor at \$1.50 hr.	6.00	6.00	9.00	9.00	9.00	9.00
Water: \$6 ac. ft. for power	3.00	4.50	6.00	9.00	12.00	18.00
Fertilizer: 12¢ lb. N applied	1.44	2.88	2.88	2.88	2.88	2.88
Spray materials	2.00	2.00	2.00	4.00	6.00	12.00
Spray application: contract	2.50	2.50	2.50	5.00	7.50	10.00
Misc. labor: 4 man hrs. 1 tractor hr.	7.40	7.40	7.40	7.40	7.40	7.40
Misc. materials	6.00	6.00	6.00	6.00	6.00	6.00
County taxes: est.	14.00	16.00	16.00	16.00	16.00	31.00
Repairs to equipment except tractor	6.00	6.00	6.00	6.00	6.00	6.00
Office, car, operating capital, etc.	17.70	5.60	5.80	4.88	6.61	8.98
Total Pre-Harvest Cash Costs	312.74	98.66	102.67	102.56	116.79	158.66
HARVESTING COSTS:						
Shaking: contract \$30 ton					11.25	18.00
Picking: contract \$45 ton					16.88	27.00
Hull & dry: contract \$40 ton					15.00	24.00
Haul: contract \$5 ton					1.88	3.00
Total Harvesting Costs					45.01	72.00
TOTAL CASH COSTS	312.74	98.66	102.67	102.56	161.80	230.66
DEPRECIATION:						
Irrigation system: \$140 cost 20 yrs.	7.00	7.00	7.00	7.00	7.00	7.00
Pump, panel, well: \$100 cost 12 yrs.	8.33	8.33	8.33	8.33	8.33	8.33
Bldgs, other equip: \$120 cost 15 yrs.	8.00	8.00	8.00	8.00	8.00	8.00
Tractor: 60¢ per hour	7.20	4.20	4.20	4.20	4.20	4.20
Total Depreciation	30.53	27.53	27.53	27.53	27.53	27.53
INTEREST ON INVESTMENT AT 6%:						
Irrigation system: ½ cost \$70	4.20	4.20	4.20	4.20	4.20	4.20
Pump, panel, well: ½ cost \$50	3.00	3.00	3.00	3.00	3.00	3.00
Bldgs, other equip: ½ cost \$60	3.60	3.60	3.60	3.60	3.60	3.60
Tractor: 30¢ per hour	3.60	2.10	2.10	2.10	2.10	2.10
Land: \$800	48.00	48.00	48.00	48.00	48.00	48.00
Interest on accumulated costs		24.34	37.03	50.71	65.22	74.24
Total Interest on Investment	62.40	85.24	97.93	111.61	126.12	135.14
TOTAL COST FOR THE YEAR	405.67	211.43	228.13	241.70	315.45	393.33
					UC Cooperative Extension	
Credit for production: 22¢ lb.					165.00	264.00
Net cost for the year	405.67	211.43	228.13	241.70	150.45	129.33
Accumulated net cost	405.67	617.10	845.23	1086.93	1237.38	1366.71