



LATERAL BEARING ENGLISH WALNUTS

Cost of Production
Cost to Establish

Lower Sacramento Valley 1975

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Division of Agricultural Sciences
UNIVERSITY OF CALIFORNIA

SPECIAL PUBLICATION
3031

PRINTED SEPTEMBER 1975

SAMPLE COSTS TO ESTABLISH LATERAL BEARING
ENGLISH WALNUT ORCHARDS

Lower Sacramento Valley - 1975

Based on 100 acres 30' X 30' spacing - 48 trees. Labor @ \$3.25/hr. including fringe benefits.

Operation	Year								
	1	2	3	4	5	6	7	8	9
Yield - pounds					500	1,000	2,000	3,000	3,500
Income @ \$.25/lb.					\$125.00	\$250.00	\$500.00	\$750.00	\$875.00
<u>Planting Costs</u>									
Land preparation	\$ 50.00								
Stake trees	35.00								
Stakes @ \$.75/tree	36.00								
Survey and plant	20.00								
Trees @ \$4/tree	192.00								
TOTAL PLANTING COSTS	333.00								
<u>Cultural Costs</u>									
Training, tie, prune	15.00	\$ 15.00	\$ 17.00	\$ 17.00	20.00	23.00	25.00	28.00	28.00
Tillage & irrigation prep.: 7 hrs. labor & tractor/year	33.25	33.25	33.25	33.25	33.25	33.25	33.25	33.25	33.25
Irrigation	13.00	13.00	13.00	16.25	19.50	19.50	19.50	19.50	19.50
Water 3 ac. ft. @ \$4.50/ac. ft.	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50	13.50
Fertilizer	5.00	10.00	10.00	15.00	25.00	36.00	40.00	43.00	45.00
Spray	3.00	10.00	20.00	30.00	40.00	50.00	60.00	70.00	80.00
Whitewash	4.65		9.30						
Misc. labor	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00	7.00
Replant	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25	7.25
Cultivate & ridge	18.00	20.00	23.00	25.00	27.00	30.00	25.00	20.00	15.00
M ^o cultural	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00	10.00
TOTAL CULTURAL COSTS	129.65	139.00	163.30	174.25	202.50	229.50	240.50	251.50	258.50

<u>Harvest Costs</u>									
Seed					6.00	8.00	12.00	12.00	12.00
Rent					13.60	13.60	13.60	13.60	13.60
Pickup					11.70	11.70	11.70	11.70	11.70
Haul to shed					6.00	6.00	6.00	6.00	6.00
Hull & dry \$.02/lb.					10.00	20.00	40.00	60.00	70.00
TOTAL HARVEST COSTS					47.30	59.30	83.30	103.30	113.30
<u>Overhead Costs</u>									
Misc. overhead	60.00	20.00	23.00	25.00	32.00	36.00	38.00	40.00	40.80
Taxes	105.00	105.00	105.00	105.00	120.00	120.00	120.00	120.00	120.00
Management	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00	50.00
Depreciation	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Interest @ 8%		62.00	100.00	144.00	191.00	241.00	288.00	321.00	340.00
TOTAL OVERHEAD COSTS	315.00	337.00	378.00	424.00	493.00	547.00	596.00	631.00	650.80
TOTAL COST PER ACRE	777.65	476.00	541.30	598.25	742.80	835.80	919.80	985.80	1,022.60
Net Cost per Acre					617.80	585.80	419.80	235.80	147.60
Accumulated Net Cost	777.65	1,253.65	1,794.95	2,393.20	3,011.00	3,596.80	4,016.60	4,252.40	4,400.00
<u>Investment</u>									
Land	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00	1,500.00
Trees		777.65	1,253.65	1,794.95	2,393.20	3,011.00	3,596.80	4,016.60	4,252.40
Irrigation system	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00	300.00
Buildings	130.00	130.00	130.00	130.00	130.00	130.00	130.00	130.00	130.00
Equipment	1,214.00	1,214.00	1,214.00	1,214.00	1,214.00	1,214.00	1,214.00	1,214.00	1,214.00
TOTAL INVESTMENT	3,144.00	3,921.65	4,397.65	4,938.95	5,537.20	6,155.00	6,740.80	7,160.60	7,396.40

Total accumulated cost through 9th year = \$4,400.00

SAMPLE COSTS TO PRODUCE
LATERAL BEARING ENGLISH WALNUTS

Lower Sacramento Valley - 1975

Based on 100 acres, 30' x 30' spacing - 48 trees/acre. Labor @ \$3.25 per hour including fringe benefits. Yield: 2 tons/acre.

Operation	Hours per Acre	Cash and Labor Cost Per Acre				Total
		Labor	Fuel & Repairs	Materials Kind and Quantity	Cost	
dollars						
<u>Cultural Costs</u>						
Pruning	6.0	19.50	7.80			27.30
Brush disposal	1.5	4.90	2.20			7.10
Fertilizer	.3	1.00	.60	Nitrogen 150# @ 30¢	45.00	46.60
*Spray 6X				Application + materials	80.00	80.00
Cultivate & ridge 5X	2.2	7.15	7.35			14.50
Irrigation	6.0	19.50		Water 3 ac.ft.@ 4.50/ac.ft.	13.50	33.00
Miscellaneous labor	2.0	6.50				6.50
Replant	1.0	3.25		1 tree/acre	4.00	7.25
TOTAL CULTURAL COSTS		61.80	17.95		142.50	222.25
<u>Harvest Costs</u>						
Landplane	.5	1.65	1.60			3.25
Shake	1.7	5.53	6.37			11.90
Sweep	2.8	9.10	4.50			13.60
Pickup	1.25	4.05	7.65			11.70
Haul to shed	1.25	4.05	1.90			5.95
Full & dry				@ 2¢/lb.	80.00	80.00
TOTAL HARVEST COSTS		24.38	22.02		80.00	126.40

<u>Cash Overhead</u>				
Miscellaneous, office, etc.				20.69
Taxes				120.00
TOTAL CASH OVERHEAD				140.69
TOTAL CASH COST		86.18	39.97	363.19
Management 5% of 2 tons @ 25¢/lb. (\$1,000)				50.00
<u>Investment</u>	<u>Per Acre</u>	<u>Annual Cost</u>		
		<u>Depreciation</u>	<u>Interest 8%</u>	
Land	1,500		120.00	
Trees	4,400	176.00	176.00	
Irrig. system	300	15.00	12.00	
Buildings	130	6.50	5.20	
Equipment	<u>1,214</u>	<u>121.40</u>	<u>48.56</u>	
Total	7,544	318.90	361.76	680.66
TOTAL COST PER ACRE				1,220.00
Cost per ton @ 2 ton yield				610.00

*This includes 3 walnut blight sprays which generally will not be necessary on late-leafing varieties.

EQUIPMENT INVESTMENT FOR
LATERAL BEARING ENGLISH WALNUT PRODUCTION

Lower Sacramento Valley - 1975

CULTURAL EQUIPMENT

Item	Cost	Operation cost per hour
Tractor, 50 hp wheel diesel	\$11,200	\$ 1.50
Tractor, 30 hp wheel diesel	7,200	1.30
Speed sprayer, 500 gal. (50 WD)	14,000	6.00
Buck rake (30 WD)	750	.15
Harrow, offset disc 10' (30 WD)	2,000	.90
Landplane (50 WD)	7,100	1.70
Fertilizer spreader	500	
Pickup, ½ ton	4,500	7.10
Truck, 1½ ton	7,000	12.00
Ridger (50 WD)	1,000	.20
Weed sprayer	250	.20
Nurse tank	450	.10
Pruning equipment (2 towers)	10,000	1.30
Total Investment	\$65,950.00	
Per acre on 100 acres	659.50	
Depreciation per acre	43.97	
Interest per acre	26.38	

HARVEST EQUIPMENT

Item	Cost	Operation cost per hour
Hulling & drying equipment	\$25,000	\$.02/lb.
Rake	3,000	1.60
Pickup machinery	17,000	6.10
Shaker	8,000	3.75
Carts - 3	2,400	.20
Total Investment	\$55,400.00	
Per acre on 100 acres	554.00	
Depreciation per acre	55.40	
Interest per acre	22.16	

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Issued in furtherance of Cooperative Extension work, acts of May 8 and June 30, 1914, in cooperation with the United States Department of Agriculture. James B. Kendrick, Jr., Director, Cooperative Extension, University of California.