

1957

WN-VN-67

SAMPLE COSTS TO ESTABLISH A WALNUT ORCHARD

Stanislaus County - 1967

David E. Ramos
Farm Advisor

Doyle Reed
Extension Economist

Based on 80 acres planted 30' x 30' - 48 trees per acre

Year	1	2	3	4	5	6	7	8	9	10
Planting Costs										
Land preparation	65.00									
Layout, plant, stake trees @50¢	24.00									
Trees 48 @ \$2.75	132.00									
Stakes @ 35¢ tree	16.80									
TOTAL PLANTING COSTS	237.80									
Cultural Costs - cash & deprec.										
Prune	3.00	4.00	6.00	8.00	10.00	12.00	16.00	18.00	20.00	21.25
Brush disposal						1.00	2.00	4.00	6.00	8.00
Fertilize				5.35	5.35	5.35	5.35	5.35	5.35	5.35
Fertilizer				8.00	9.00	10.00	11.00	12.00	13.00	16.50
Spray		6.00	6.00	6.00	10.00	10.00	10.00	12.90	12.90	12.90
Spray material		10.00	12.00	14.00	16.00	18.00	20.00	24.00	30.00	35.00
Cultivate	19.00	19.00	19.00	19.00	19.00	25.20	25.20	25.20	25.20	25.20
Ridge	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05	5.05
Irrigate (incl. tax \$1.10)	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35	10.35
Spray weeds	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Misc. (includes tying)	21.00	4.00	4.00	5.00	7.00	9.00	11.00	13.00	15.00	16.15
TOTAL CULTURAL COSTS	60.40	60.40	64.40	82.75	93.75	107.95	117.95	131.85	144.85	157.75
Harvest Costs										
Land preparation					11.35	11.35	11.35	11.35	11.35	11.35
Shake, pick, hull, dry @ 4¢					12.00	30.00	60.00	80.00	90.00	100.00
Overhead										
Misc.	13.55	3.10	3.05	4.50	5.90	7.10	9.30	11.05	12.60	13.70
Taxes	20.00	20.00	20.00	35.00	35.00	35.00	35.00	35.00	35.00	35.00
Interest	109.25	137.50	152.55	168.75	188.00	206.60	222.40	231.75	237.20	241.20
Management	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
TOTAL OVERHEAD	172.80	190.60	205.60	238.25	258.90	278.70	296.70	307.80	314.80	319.90
TOTAL COST	471.00	251.00	270.00	321.00	376.00	428.00	486.00	531.00	561.00	589.00
Income										
Yield - pounds					300	750	1500	2000	2250	2500
Income @ 22¢ pound					66.00	165.00	330.00	440.00	495.00	550.00
Net Cost Per Acre	471.00	471.00	270.00	321.00	310.00	263.00	156.00	91.00	66.00	39.00
Accumulated Cost Per Acre		722.00	992.00	1313.00	1623.00	1886.00	2042.00	2133.00	2199.00	2238.00
Investment Per Acre										
Land	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00	1500.00
Trees		471.00	722.00	992.00	1313.00	1623.00	1886.00	2042.00	2133.00	2199.00
Irrigation system	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00	150.00
Buildings	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00	90.00
Equipment	401.00	401.00	401.00	401.00	401.00	401.00	401.00	401.00	401.00	401.00
TOTAL INVESTMENT	2141.00	2612.00	2863.00	3183.00	3454.00	3764.00	4017.00	4183.00	4274.00	4340.00
Total cost of development through 10th year = \$2,238.00										

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SAMPLE COSTS TO PRODUCE WALNUTS - STANISLAUS COUNTY - 1967

David E. Ramos, Farm Advisor
Doyle Reed, Extension EconomistBased on an 80-acre orchard yielding 2,500 pounds. Trees 42' x 42', 24 trees per acre
Labor at \$1.95 and \$2.25 per hour including social security and compensation insurance

Operation	Hours Per Acre	Cash and Depreciation Costs Per Acre					Total Cost
		Labor	Fuel & Repairs	Depreciation	Materials		
					Kind	Amount	
Cultural Costs							
Prune	10.0	\$19.50	\$ 1.00	\$.75			\$ 21.25
Brush disposal	1.5	3.30	1.60	3.10			8.00
Fertilize 2x	1.0	2.25	1.30	1.80	150 lbs. N @ 11¢	\$ 16.50	21.85
Spray 4x	1.2	2.70	3.90	6.30	Material	35.00	47.90
Cultivate 8x	4.0	9.00	8.80	7.40			25.20
Ridge 4x	.8	1.80	1.35	1.90			5.05
Irrigate 4x	1.2	2.25	1.00	6.00	Water tax	1.10	10.35
Spray weeds	.3	.70	.30		Herbicide	1.00	2.00
Misc.	3.0	5.85	2.00	3.30		5.00	16.15
TOTAL CULTURAL COSTS		\$47.35	\$21.25	\$ 30.55		\$ 58.60	\$157.75
Harvest Costs							
Cultivate 2x	1.0	\$ 2.25	\$ 2.40	\$ 1.85			\$ 6.50
Float & roll 3x	1.0	2.25	1.00	1.60			4.85
Shake 2x	2.0	4.50	3.70	15.25			23.45
Rake	1.7	3.85	1.30	5.00			10.15
Pick up	1.2	2.70	5.00	24.00			31.70
Haul to huller	1.2	2.70	1.20	.65			4.55
Hull & dry		8.50	6.25	12.50		\$ 3.75	31.00
TOTAL HARVEST COSTS		\$26.75	\$20.85	\$ 60.85		\$ 3.75	\$112.20
Overhead Costs							
Misc., office, etc.				\$ 9.05		\$ 14.75	\$ 23.80
Taxes						35.00	35.00
Tree depreciation				55.95			55.95
TOTAL OVERHEAD				\$ 65.00		\$ 49.75	\$114.75
TOTAL CASH AND DEPRECIATION		\$74.10	\$42.10	\$156.40		\$112.10	\$384.70
Interest							\$188.80
Management	5% of 2500 lbs. @ 22¢						27.50
TOTAL COST PER ACRE							\$601.00
COST PER POUND @ 2500 POUND YIELD							

INVESTMENT FOR WALNUT PRODUCTION

Stanislaus County - 1967

David E. Ramos, Farm Advisor - Doyle Reed, Extension Economist

Item	Cost	Life	Depreciation	Operation Cost Per Hour	Hours Used	Depreciation Per Hour	Hours Per Acre
	<u>Per Acre</u>	<u>Total</u>					
Land - 80 acres	1,500	120,000					
Trees - 80 acres	2,238	179,040	40	4,476		55.95/acre	
Irrigation system	150	12,000	25	480		6.00/acre	
Buildings	90	7,200	25	288		3.60/acre	
Equipment							
Tractor TD 40	11,700	15	780	1.25	560	1.40	
Tractor WD 30	5,000	10	500	.85	400	1.25	
Pruning equipment	300	5	60	.10		.75/acre	
Trailer	1,400	15	93	.20	120	.78	
Fertilizer spreader 12'	450	10	45	.25	80	.58	.5
Sprayer 500 gal.	5,500	15	367	2.65	95	3.86	.3
Disc 12'	1,750	10	175	1.15	400	.44	.4
Ridger	600	10	60	.40	64	.94	.2
Weed sprayer	200	10	20	.10	24		
Float 12'	60	10	6	.05	80	.08	.2
Roller	200	10	20	.10	80	.25	
Shaker	5,600	5	1,120	1.85	160	7.63	2.0
Rake	2,000	5	400	.75	136	2.94	1.7
Pickup machine	9,000	5	1,800	3.30	96	18.75	1.2
Carts (2)	500	10	50	.05	96	.52	1.2
Misc.	2,740	10	274			3.30/acre	
Total Equipment	597	47,000					
Huller and building	188	15,000					
Pickup	31	2,500	5	500		6.25/acre	
Total Investment	382,740		12,514				
Per Acre on 80 acres	4,784						
Depreciation per acre			156				
Interest per acre	189						