

UNIVERSITY OF CALIFORNIA  
AGRICULTURAL EXTENSION SERVICE

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Statewide

INVESTMENT FOR WALNUT PRODUCTION

Item	Cost		Life	Depreciation Per Year	Operation Cost Per Hour	Hours Used	Depreciation Per Hour	Hours Per Acre
	Per Acre	Total						
Land 80 acres	1350	108000						
Trees 80 acres	2588	207040	40	5176			\$64.70/acre	
Irrigation System	150	1200	25	480			6.00/acre	
Buildings	90	7200	25	288			3.60/acre	
Equipment								
Tractor W.D. 55		6500	10	650	1.50	1016	.64	12.7
Pruning Equipment		1000	10	100	.10		1.25/acre	
Trailer		800	16	50	.20	120	.42	
Disc. 12'		2000	10	200	1.15	400	.50	5.0
Ridger		700	10	70	.40	64	1.09	0.8
Orchard landplane		1600	16	100	1.00	80	1.25	1.0
Shaker		5600	10	560	1.85	80	7.00	1.0
Rake		2000	5	400	.75	136	2.94	1.7
Pickup machine		5000	5	1000	3.30	160	6.25	2.0
Carts (2)		1200	10	120	.05	96	1.25	1.2
Misc.		1500	10	150			1.88/acre	
Total Equipment	349	27900						
Huller and building	188	15000	15	1000			12.50/acre	
Pickup	40	3200	5	640			8.00/acre	
<b>Total Investment</b>		<b>380340</b>		<b>10984</b>				
Per acre on 80 acres		4754						
Depreciation per acre				137				
Interest per acre		214						

SAMPLE COSTS TO ESTABLISH A WALNUT ORCHARD  
 In Merced, Stanislaus & San Joaquin Counties 1968 - 1969  
 Based on 80 acres planted 30' X 30' 48 trees per acre

WALNUT

Year	1	2	3	4	5	6	7	8	9	10
<b>Planting Costs</b>										
Land preparation	15.00									
Layout, plant, stake, trees 50¢	24.00									
Trees 48 at \$2.75	132.00									
Stakes; 35¢ tree	16.80									
<b>Total Planting Costs</b>	<b>187.80</b>									
<b>Cultural Costs: Cash &amp; dep.</b>										
Prune	3.00	4.00	6.00	8.00	10.00	14.00	21.00	26.00	31.00	36.00
Brush disposal						1.00	2.00	4.00	6.00	8.00
Fertilize	3.50	3.50	3.50	3.50	3.50	1.00	1.00	1.00	1.00	1.00
Fertilizer	1.20	2.40	3.60	6.00	7.00	8.00	9.00	10.00	12.50	15.00
Spray		3.50	3.50	3.50	3.50	28.00	28.00	28.00	28.00	28.00
Spray materials		3.00	3.00	4.50	4.50	35.00	35.00	35.00	35.00	35.00
Cultivate	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.16	24.16
Ridge	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70	4.70
Irrigate	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50	26.50
Misc. inc. weed control	25.00	5.00	5.00	6.00	8.00	10.00	12.00	14.00	16.00	19.52
<b>Total Cultural Costs</b>	<b>88.06</b>	<b>76.76</b>	<b>79.96</b>	<b>86.86</b>	<b>91.86</b>	<b>152.36</b>	<b>163.36</b>	<b>173.36</b>	<b>184.86</b>	<b>197.88</b>
<b>Harvest Costs</b>										
Land preparation					12.68	12.68	12.68	12.68	12.68	12.68
Shake, pick, hull, dry 4¢					12.00	30.00	60.00	80.00	90.00	100.00
<b>Overhead</b>										
Misc.	16.55	4.60	4.80	5.21	7.00	11.70	14.16	15.96	17.25	18.63
Taxes	25.00	25.00	25.00	25.00	40.00	40.00	40.00	40.00	40.00	40.00
Interest	125.79	144.14	164.02	185.79	212.34	241.33	267.51	284.63	295.79	305.06
Management	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00	30.00
<b>Total Overhead</b>	<b>197.34</b>	<b>203.74</b>	<b>223.82</b>	<b>246.00</b>	<b>289.34</b>	<b>323.03</b>	<b>351.67</b>	<b>370.59</b>	<b>383.04</b>	<b>393.69</b>
<b>Total Cost</b>	<b>473.20</b>	<b>280.50</b>	<b>303.78</b>	<b>332.86</b>	<b>405.88</b>	<b>518.07</b>	<b>587.71</b>	<b>636.63</b>	<b>670.58</b>	<b>704.25</b>
<b>Income</b>										
Yield: pounds					300	750	1,500	2,000	2,250	2,500
Income at 25¢ lb.					75.00	187.50	375.00	500.00	562.50	625.00
Net cost per acre	473.20	280.50	303.78	332.86	330.88	330.57	212.71	136.63	108.08	79.25
<b>Accumulated Net Cost</b>	<b>473.20</b>	<b>753.70</b>	<b>1057.48</b>	<b>1390.34</b>	<b>1721.22</b>	<b>2051.79</b>	<b>2264.50</b>	<b>2401.13</b>	<b>2509.21</b>	<b>2588.46</b>
<b>Investment per Acre</b>										
Land	1350.00	1350.00	1350.00	1350.00	1350.00	1350.00	1350.00	1350.00	1350.00	1350.00
Trees		473.20	753.70	1057.48	1390.34	1721.22	2051.79	2264.50	2401.13	2509.21
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	156.25	156.25	156.25	156.25	156.25	156.25	156.25	156.25	156.25	156.25
<b>Total Investment</b>	<b>1746.25</b>	<b>2219.45</b>	<b>2499.95</b>	<b>2803.73</b>	<b>3136.59</b>	<b>3467.47</b>	<b>3798.04</b>	<b>4010.75</b>	<b>4147.38</b>	<b>4255.46</b>

Total Cost of development through the 10th year = \$2588.46