

NAVEL/ORANGE PRODUCTION

Cost Analysis Work Sheet

Sample costs to produce Navel oranges in Fresno County. Based on a yield of 450-53 lb. field boxes per acre from trees planted 22' x 22' with non-tillage practices followed.

	<u>Sample Costs</u>		<u>My Costs</u>	
	<u>Per Acre</u>	<u>Per Fld.Box</u>	<u>Per Acre</u>	<u>Per Fld.Box</u>
<u>PRE-HARVEST CASH COSTS</u>				
Non-tillage costs - total	14.00			
Irrigate: 7 times - total labor	15.00			
Water: power for 3 ac. ft. @ \$6.00	18.00			
Fertilizer: 100 lbs. N from calcium nitrate	20.00			
40 lbs. L.B. Urea @ \$117/ton	2.35			
Fertilizer application - total	2.50			
Pest control: 3 applications - contract	60.00			
Frost protection (wind machine)	60.00			
Misc. tree care and materials	15.00			
County taxes	32.30			
Office, car, operating capital, etc.	12.00			
Repairs to equipment	5.00			
<u>Total Pre-Harvest Cash Costs</u>	<u>256.15</u>	<u>.57</u>		
<u>HARVESTING COSTS</u>				
Picking: 450 field boxes at 26¢	117.00			
Hauling: 450 field boxes @ 7¢	31.50			
<u>Total Harvesting Costs</u>	<u>148.50</u>	<u>.33</u>		
<u>TOTAL CASH COSTS</u>	<u>404.65</u>	<u>.90</u>		
<u>DEPRECIATION</u>				
Trees: \$1000 cost, 40 yrs. life	25.00			
Irrigation system: cost \$100 - 20 yrs. life	5.00			
Pump, panel, well: cost \$65 - 10 yrs. life	6.50			
Wind machine: cost \$420 - 15 yrs. life	28.00			
Bldgs. & other equipment - cost \$200 - 10 yrs. life	20.00			
<u>Total Depreciation</u>	<u>84.50</u>	<u>.19</u>		
<u>INTEREST ON INVESTMENT AT 6%</u>				
Trees: ½ cost \$500	30.00			
Irrigation system: ½ cost \$50	3.00			
Pump, panel, well - ½ cost \$32.50	1.95			
Wind machine: ½ cost - \$210	12.60			
Bldgs., other equipment - ½ cost \$100	6.00			
Land: \$800	48.00			
<u>Total Interest on Investment</u>	<u>101.55</u>	<u>.22</u>		
<u>TOTAL COST OF PRODUCTION</u>	<u>590.70</u>	<u>1.31</u>		

Cost Per Field Box at Varying Yields

Yield: field boxes per acre	300	400	450	500	600	700
Cash and depreciation cost	1.47	1.18	1.09	1.01	.90	.82
Total cost per field box	1.80	1.44	1.31	1.21	1.07	.96

NATEL ORANGE PRODUCTION

Cost Analysis Work Sheet

by

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This work sheet was developed to show sample costs for a good yielding, mature grove under Fresno County conditions. These costs will be useful as a guide when a specific planting is under consideration.

When using this work sheet it is important to consider the following:

1. Seasonal variations influence fruit set, quality, and operational expenses. Consequently, differences in harvest, pest control, and frost protection will occur.
2. These sample costs are based on a 30 acre citrus operation and larger.
3. No account is taken for partial or complete crop loss due to frost, labor problems, insects, etc.
4. No allowance is made for management costs.
5. Interest and depreciation costs are based on present costs of establishing an orchard. Present bearing orchards may have been established at a lower cost.

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