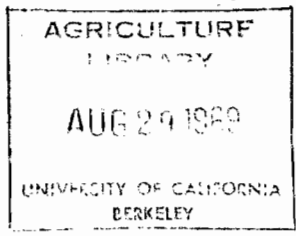


ESTABLISHING A NAVEL ORANGE GROVE

Cost Analysis Work Sheet

Sample costs to establish a Navel orange grove in Fresno County. Costs are based on planting 180 trees per acre. Man labor at \$1.70 per hour total and equipment operator \$1.90. Medium wheel tractor per hour cash costs \$1.40, depreciation 60¢ and interest 26¢.

	1st year	2nd year	3rd year	4th year	5th year
Yield: Fieldboxes per acre			90	180	250
PRE-HARVEST CASH COSTS:					
Land preparation: contract level	75.00				
rip	100.00				
re-level	20.00				
Layout and plant: 180 trees @ 30¢	54.00				
Trees: 180 @ \$2.25	405.00				
Replant 2nd yr. 3 trees @ \$3		9.00			
Irrigation labor	23.80	13.60	13.60	17.00	17.00
Water: power cost \$6 ac. ft.	3.00	4.50	6.00	9.00	12.00
Tillage and weed control	20.00	20.00	15.00	15.00	15.00
Fertilizer	2.25	5.00	7.50	15.00	22.50
Fertilizer application	3.00	3.00	3.00	3.00	3.00
Pest control: materials & application	18.00	18.00	25.00	30.00	45.00
Frost protection: paint & wrap 1st 2 yrs. & wind machine 5th yr.	24.00	24.00	12.00	12.00	60.00
Misc. labor, materials, rodent control	15.00	15.00	5.00	5.00	5.00
Taxes	17.50	17.50	17.50	17.50	45.00
Repairs to equipment except tractor	7.00	6.50	9.00	10.00	10.00
Office, car, operating capital, etc.	47.25	8.17	9.03	12.44	20.22
Total Pre-Harvest Cash Costs	834.80	144.27	122.63	145.94	254.72
HARVESTING COSTS:					
Pick & haul: 41¢ fieldbox			36.90	73.80	102.50
Total Cash Costs	834.80	144.27	159.53	219.74	357.22
DEPRECIATION:					
Irrigation system: \$140 - 20 yrs.	7.00	7.00	7.00	7.00	7.00
Pump, panel, well - \$120 - 12 yrs.	10.00	10.00	10.00	10.00	10.00
Wind machine: \$480 - 15 yrs.					32.00
Tractor 60¢ hr.	3.60	2.70	3.00	3.00	3.60
Bldgs., other equip.: \$120 - 10 yrs.	12.00	12.00	12.00	12.00	
5th yr. add heaters \$100 - 10 yrs.					22.00
Total Depreciation	32.60	31.70	32.00	32.00	74.60
INTEREST ON INVESTMENT AT 7%:					
Irrigation system: ½ cost \$70	4.90	4.90	4.90	4.90	4.90
Pump, panel, well: ½ cost \$60	4.20	4.20	4.20	4.20	4.20
Wind machine: ½ cost \$240					16.80
Tractor: 26¢ hr.	1.56	1.17	1.30	1.30	1.56
Bldgs, other equip: ½ cost \$60	4.20	4.20	4.20	4.20	4.20
Heaters: ½ cost \$50					3.50
Land: \$1000	70.00	70.00	70.00	70.00	70.00
Interest on accumulated costs		66.66	89.56	105.70	117.75
Total Interest on Investment	84.86	151.13	174.16	190.30	222.91
TOTAL COST FOR THE YEAR	952.26	327.10	365.69	442.04	654.73
Credit for fruit \$1.50 fldbox harvested	0	0	135.00	270.00	375.00
Net cost for the year	952.26	327.10	230.69	172.04	279.73
Accumulated net cost	952.26	1279.36	1510.05	1682.09	1961.82



ESTABLISHING A NAVEL ORANGE GROVE IN FRESNO COUNTY

Cost Analysis Work Sheet

Todd Browne and E. A. Yeary
Farm Advisors

This work sheet was developed to show sample costs for establishing a navel orange 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. Sample costs are based on a double set 11' x 22' planting figuring an approximate net of 180 trees per acre. Older plantings and some new plantings are being established at other tree spacings.
2. Tree loss was calculated at three trees per acre. Under adverse soil, water, disease and frost conditions, this loss could be much greater.
3. Projected harvest costs, yields and returns may have to be changed to apply to a specific season. As an example, handling costs may run to 10¢ per box in wet years.
4. Frost protection costs can vary depending on the system used.
5. Irrigation system costs are based on a 125' well with a concrete pipe system. Low volume sprinkler systems are often installed at a different average cost.

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