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SAMPLE COSTS

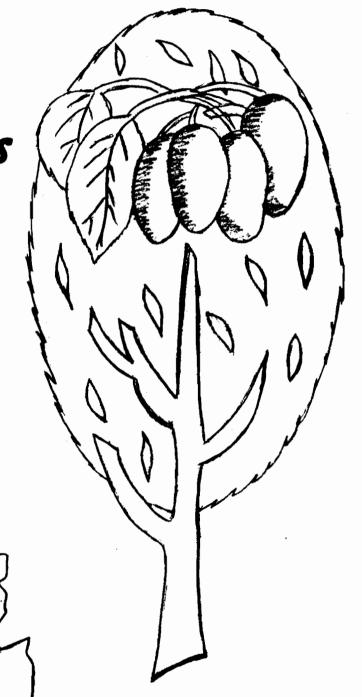
TO PRODUCE PRUNES

NON-TILLAGE

IN

GLENN

COUNTY



UNIVERSITY OF CALIFORNIA
AGRICULTURAL EXTENSION SERVICE
ORLAND, CALIFORNIA

This Cost Study has been compiled by:

Roy B. Jeter Farm Advisor Glenn County Cooperative Extension Service

and

A. D. Reed Extension Economist University of California Davis, California

Farm Advisor's Office Glenn County

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"The University of California's Agricultural Extension programs are available to all, without regard to race, color, or national origin."

BASIS FOR COST OF PRODUCING PRUNES UNDER GLENN COUNTY CONDITIONS

This cost study is based upon information gathered from several Glenn County operations. The data should be used only as a guide for planning or evaluating your own operation.

All labor is shown as contract at either \$3.00 skilled or \$2.50 unskilled per hour (including Social Security, Workmens Compensation Insurance and other minor costs). Operators performing their own labor or hiring non-contract labor should reduce the labor costs shown by an appropriate amount. It should be remembered that all contract labor in a cost study represents actual costs plus a profit to the contractor.

The equipment investment is based upon new cost. It should be realized that many operators own and maintain equipment which has been partially or completely depreciated. In such cases, proper adjustments should be made in depreciation and interest costs. Such savings are not reflected in the study.

Cultural costs as shown are based upon maximum recommended requirements. It is recognized that in a given year it may not be necessary for all practices (pest control, etc.) to be performed.

Chopping orchard weed growth is now used by the majority of prune growers. Orchards where non-tillage is practiced will benefit by "working up" the orchard floor every few years. This prevents dense sod formation and on some soil types aids water penetration.

Fertilizer programs are not constant on a year to year basis. Amounts of "N" may be reduced in years of light crop. Potassium Sulfate (potash) is recommended at high levels, usually 15 to 20 pounds per tree. A band injection applied application at these rates should last 3 to 4 years before retreatment is necessary, depending on crop yields and soil type. Leaf analysis and tree condition will indicate the potassium level in trees.

The number of pest sprays may vary from orchard to orchard. Mites may become a summer pest problem, especially in cultivated orchards. This cost study allows for three seasonal sprays. Summer showers can stimulate fruit rot and leaf rust. Such situations might require pre-harvest fruit spray or dusting. Fruit rot control by sprays or dusts have not proven satisfactory to date.

The investment shown for trees reflects input costs covering those years up to self-sustaining production. Interest on investment costs represents 8 percent on the average value of all depreciable items. Land does not depreciate; therefore, interest is computed on the full value.

Land taxes are calculated by multiplying the market value by twenty-five percent times the tax rate. Taxes on depreciable property is allowed in the miscellaneous cost.

*Dry fruit handling cost includes an additional cost to growers that is highly variable from year to year. It includes such items as industry assessment per dry ton, a set aside of crop some years that cannot be marketed; off grade dried fruit may grade undersize and be declared unsalable. All of these costs are assessed to the grower and must be considered as cost against the processed crop on a year-to-year basis.

Note the blank column on the right margin. This is for your use in comparing your costs with the sample costs. It is suggested that growers acquire a copy from your farm advisor each year and keep an annual production cost record.

SAMPLE COSTS TO PRODUCE PRUNES - NON-TILLAGE Glenn County August 1975

Labor including fringe costs: Skilled - \$3.00/hour Unskilled - \$2.50/hour

Production data: 3 dry tons/acre (3.2:1 ratio) of 70/80 size. 120 trees/acre. 100 acre units

Production data: 3 dry	tons/a	icre (3.2:	l ratio)	of 70/80 size.	120 trees/a	icre. 100	acre ur	its
	Hours Cash and labor cost per acre Cost							
	per Fuel & Materials						per	Your
Operation	acre	Labor	Repairs	Kind and quant	ity cost	Total	ton	cost
Cultural Costs								
Prune 120 trees @ .70		\$ 84.00				\$ 84.00	l	
Chop or remove brush	2.5	7.50	\$ 6.56			14.06		
Spray 3X (dormant,	2.5	7.50	3 0.30			14.00		
fungus lagy soah	1.0	3.00	8.40	Pesticides	\$ 37.60	49.00		
fungus, lacy scab Fertilize	1.0	3.00	0.40	Nitrogen (1.5		43.00		
rentifize				N/tree x 120)				\ \ \ \
				180 lbs/ac @				
				+ \$1.50 appli		57.30		
						37.30		
	ĺ			Potash (potass				
				sulfate) 20 1				
₹ `				tree every 5				
				480 lbs/ac/yr		27.60		
Ol CV	, _	4 50	2.06	7¢ and applic	. 37.60	37.60		
Chop 6X	1.5	4.50	3.96	0, 0,00	05 - 0.13	8.46		
Irrigate 6X	6.0	15.00	3.50	2½ ac ft 0 \$3		26.63		
Tree replacement	2.0	6.00		Trees 1/ac @	1.45	7.45		
<u>Iving</u> and/or lop								
runing, weed				ļ	0.50			
`control, etc.	6.0	15.00	1.50	Misc. supplie				
			400.00	herbicides.	ties, etc.	19.00	¢101 17	
TOTAL CULTURAL COSTS		\$135.00	\$23.92		\$144.58	\$303.50	\$101.17	
Harvest Costs	^	O A	00 00		¢102 00	\$192.00		
Harvest (contract) 9.	b greer	tons @ \$	20.00	/ ¢2 E0	\$192.00 33.60			
Field bin handling & h	aul to	aryer 9.6	green to	ns/ac x \$3.50	6.75			
Field bin rental @ \$4.								
Dehydrator (contract)				9.6 green cons	240.00	240.00		
y fruit handling cos	t" (rei	er to nar	rative)		\$472.35	\$472.35	\$157 45	
Cash Overhead					\$472.55	ψ472.00	¥137.43	
Misc., office, interes	t of or	oomating c	anital o	t c				
	46.55	46.55						
6% x above costs (\$303.50 + \$472.35) 46.55 Taxes & insurance (\$800 x 25% x 9.9 rate) 19.80								
Taxes & insurance (\$800 x 25% x 9.9 rate) 19.80 19.80 TOTAL CASH OVERHEAD \$ 66.35 \$ 66.35 \$ 22.12								
TOTAL CASH OVERHEAD \$135.00 \$23.92 \$683.28 \$842.20 \$280								
Management 5% of 3.0 to	ns 0 \$3		7=0.0=			52.50	\$ 17.50	
Trainagemento on or oro co				Annual Cos	+			
INVESTMENT	Pay	r Acre	Πe	preciation Int	erest: 8%			
Land		300.00	<u> </u>		64.00			
Trees		200.00		\$ 88.00	88.00			
Irrigation syst		250.00		12.50	10.00			
Buildings	CIII 4	55.00		2.75	2.20]
Equipment		312.00		31.20	12.48			
Total Total		617.00			176.68	\$311 .13	\$103.71	
AL COST PER ACRE	40	017.00		<u> </u>	11.01.00	\$1205.83		
		۲۰	st ner to	on at varying yi	elds			
Yield - tons per acre		2	o per oc	3	4			
Cost per ton		\$510.72		\$401.94	\$346.06			
0030 pct 0011		Ψ010172		T	,			

EQUIPMENT INVESTMENT FOR PRUNES

Glenn County August 1975

Based on 100 acres of prunes (120 trees per acre)

Item	Cost	Annual use (acres)	Cost per acre	Life (Yrs.)	Depreciation	8% Interest	Cash Fuel	Cash costs per hour Fuel Repairs Total		
Tractor W.D. 45 H.P.	\$ 7,500	100	\$ 75.00	10	\$ 7.50	\$ 3.00	\$.56	\$ 1.19	\$ 1.75	
Tractor W.D. 35 H.P.	6,500	100	65.00	10	6.50	2.60	.37	. 95	1.32	
Sprayer P.T.O.	4,800	100	48.00	10	4.80	1.92		4.81	4.81	
Chopper 10' P.T.O.	2,500	100	25.00	10	2.50	1.00		.88	.88	
Disc 8'	1,100	100	11.00	10	1.10	. 44		.88	.88	
Ridger	500	100	5.00	15	.50	.20		. 44	.44	
Tool bar	250	100	2.50	15	.25	.10		.18	.18	
Springtooth 11'	1,600	100	16.00	10	1.60	.64		.96	.96	
Truck 2 T. (1/2 share)	4,000	100	40.00	10	4.00	1.60				
Pickup (1/2 share)	2,500	100	25.00	10	2.50	1.00				
		<u> </u>							_ 	
Total	\$31,250	xxx	\$312.50	xx	\$31.25	\$12.50				

MONTHLY CASH FLOW FOR PRUNES

Glenn County August 1975

		Month											
Operation	Total	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
Cultural Costs Prune Brush removal Spray 3X	\$ 84.00 14.06 49.00	\$42.00 16.33	\$ 42.00 7.03	\$ 7.03	\$ 16.33	\$	\$ 16.33	\$	\$	\$	\$	\$	\$
Fertilize Nitrogen Potash Chop 6X Irrigate 6X Iree replacement Tying and/or lop pruning, misc.	57.30 37.60 8.46 26.63 7.45		57.30 7.45 6.33	1.41	1.41 4.43	1.41 4.44	1.41 4.44	1.41 4.44 6.34	1.41 4.44 6.33	4.44	37.60		
Total	\$303.50		0.00										
Harvest Costs Harvest	472.35								472.35				
Total	472.35				_						_		
Cash Overhead Miscellaneous Taxes & insurance	46.55 19.80	3.88	3.88	3.88	3.88 9.90	3.88	3.88	3.88	3.88	3.88	3.88	3.88	3.87 9.90
Total	66.35												
TOTAL CASH COST	\$842.20	\$62.21	\$123.99	\$12.32	\$35.95	\$ 9.73	\$26.07	\$16.07	\$488.41	\$ 8.32	\$41.48	\$ 3.88	\$13.77

The following University of California Agricultural Extension publications on prunes and other deciduous fruit trees are available at your local farm advisor's office. 0SA-133 2432 ALTERNATE MIDDLE IRRIGATION OF ORCHARDS -

Describes method to conserve water. C 486 2433 ESSENTIALS OF IRRIGATION AND CULTIVATION OF ORCHARDS -Principles of good soil and water management.

B 826 1825 MECHANICAL HARVESTING EQUIPMENT FOR DECIDUOUS FRUIT TREES -

Tree shakers, pickup machines and catching frames in common use on deciduous tree fruits and nuts. PERENNIAL MORNING-GLORY CONTROL IN VINEYARDS AND ORCHARDS -

0SA-n72 2434 Control by subsurface layering of herbicides. AXT-n70 2435 A PERMANENT SPRINKLER SYSTEM FOR DECIDUOUS ORCHARDS AND VINEYARDS

OSA-n13 2436 PLANT YOUR ORCHARD RIGHT -Major decisions about site, preparation, rootstocks and varieties,

0SA-180 2437 PLANTING LAYOUTS FOR DECIDUOUS ORCHARDS OSA-n34 2367

planting distances, and training.

PRUNING EQUIPMENT SELECTION -

Briefly describes and compares electrical, hydraulic, and

pneumatic pruning equipment.

AXT-159 2461 PRUNE PRODUCTION

UC Cooperative Extension