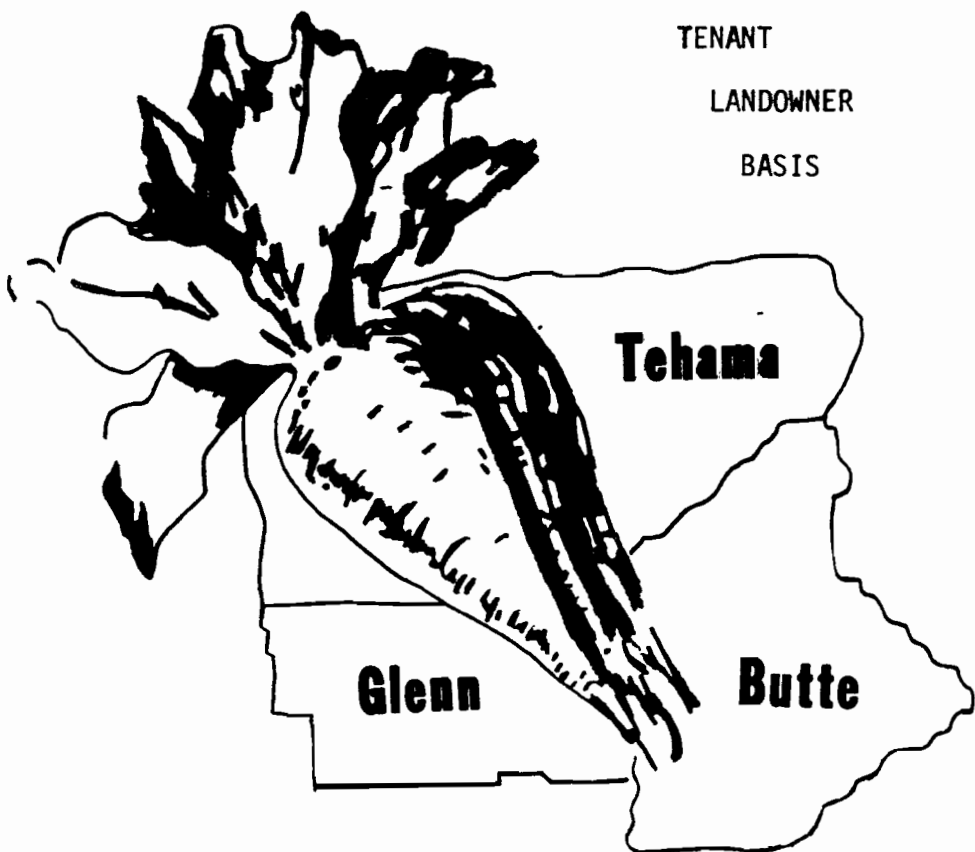


SUGAR BEET

PRODUCTION COSTS



Robert L. Sailsbery
Farm Advisor

Philip S. Parsons
Extension Economist

University of California
Agricultural Extension Service
Glenn-Butte-Tehama Counties

EQUIPMENT AND BUILDING LIST

Item	Original Cost	Annual Use (Acres)	Cost Per Acre	Life (Years)	Non-Cash Overhead	
					Depreciation	Interest at 8%
Tractor, 100-120 HP Tr. Diesel	\$ 51,500	1,500	\$ 34.33	20	\$ 1.72	\$ 1.37
Tractor, 80-90 HP Tr. Diesel or 4 Wheel Drive Diesel	40,000	1,500	26.67	20/10(15)	1.78	1.07
Tractor, 100 HP Wheel Diesel	20,000	1,500	13.33	10	1.33	.53
Tractor, 80-90 HP Wheel Diesel	18,000	1,500	12.00	10	1.20	.48
Plow 4-18 hydraulic 2-way	4,500	750	6.00	10	.60	.24
Disk, stubble, 12 ft.	10,200	750	13.60	10	1.36	.54
Disk, offset, 21 ft.	9,500	1,500	6.33	10	.63	.25
Chisel (heavy duty) 16 ft.	3,500	1,500	2.33	10	.23	.09
Springtooth or field cultivator - 30 ft.	4,500	1,500	3.00	10	.30	.12
Spiketooth Adjust. - 30 ft.	400	1,500	.27	10	.03	.01
Roller - 15 ft.	1,750	750	2.33	15	.16	.09
Rolling Cultivator - 6-row	2,600	1,000	2.60	10	.26	.10
Planter, w/sled and incorporator - 6-row	11,000	1,000	11.00	7	1.57	.44
Cultivator Sled & Equipment	4,500	1,000	4.50	10	.45	.18
Triplane - 16 ft.	6,000	1,500	4.00	15	.27	.16
Landplane - 60 ft.	11,000	1,500	7.33	20	.37	.29
Electronic Thinner - 6-row	12,000	250	48.00	7	6.86	1.92
Bedding tools	1,000	1,000	1.00	10	.10	.04
Ditcher - 4 ft.	1,600	1,500	1.07	15	.07	.04
Saddle tanks (2 sets)	2,000	1,500	1.33	10	.13	.05
Tool Carrier (used)	4,000	1,500	2.67	10	.27	.11
Bait Applicator	1,000	500	2.00	10	.20	.08
Truck (used)	5,000	1,500	3.33	5	.67	.13
Pickup - 3/4 ton	6,000	1,500	4.00	5	.80	.16
2 Pickups (used)	6,000	1,500	4.00	3	1.33	.16
Siphons	4,000	1,500	2.67	10	.27	.11
Shop Tools	6,000	1,500	4.00	15	.27	.16
Buildings	12,000	1,500	8.00	20	.40	.32
Total	\$259,550		\$231.69		\$23.63	\$9.24

BASIS OF SUGAR BEET COST STUDY

1. The cost study is based on a 1,500 acre field crop operation with 250 acres of sugar beets. Other crops grown on the ranch may include one or more of the following crops: grain crops, alfalfa hay and/or seed, grain sorghum, field corn, beans, safflower, etc. Much of the equipment listed will be used on the entire acreage sometime during the year.
2. In allocating the equipment cost per acre in the equipment list the following calculations were made: (a) "Original Cost" of equipment is the estimated new cost and includes 6% sales tax. (b) "Cost Per Acre" is the new cost divided by the number of acres the equipment will be used on. (c) "Depreciation" is based on the "Per Acre Cost" divided by the expected life of the equipment. (d) "Interest" on investment is figured on one-half of the new cost per acre multiplied by 8%.
3. Miscellaneous expenses are estimated to be about 6% of the total cultural and harvest costs. They include such costs as preparing roadways, general weed control, office, bookkeeping, interest on operating money, etc.
4. Labor costs are based on a \$4.25 hourly rate for skilled labor and \$3.25 hourly rate for unskilled (irrigator). Included are cash wages, compensation insurance, Social Security and other benefits that the employer might pay.
5. Equipment operating costs are listed under fuel and repair. Included is the cost of fuel, maintenance, replacement parts, tires, etc. Tractor charges per hour are: 100-120 HP track diesel \$9.65; 80-90 HP track diesel \$7.50; 100-HP wheel diesel \$4.80 and 80-90 HP wheel diesel \$4.40.
6. Management (what the grower's decision making is worth) is figured at 5% of the market value of the crop.
7. Every operation in Butte, Glenn and Tehama Counties is not necessarily the same. Therefore, in some cases a specific operation may more nearly reflect a typical situation in one county than in another. However, it is believed that overall operations in the three counties are sufficiently similar to warrant this sugar beet study being presented as a three-county study.
8. Practices such as insecticide and fungicide applications and a layby herbicide may not always be necessary every year or on the entire acreage every year. However, a reasonably complete pesticide program is included in this study.
9. Percent sucrose and net selling price of sugar determine the per ton return on sugar beets. As these factors vary, changes in returns per ton for sugar beets will change accordingly. For this study a value of \$30.00 per ton is used, which reflects strictly an estimate of a proposed 1975 return.
10. These sample costs to produce sugar beets in the three county area designated may not represent the cost of any one individual grower. However, this cost study should serve as a useful guide in reviewing the typical costs and practices in sugar beet production. Growers are encouraged to make use of the column "Your Costs Per/A." provided to permit a comparison of the sample costs in this study with individual grower costs.
11. Grower representation from Glenn, Butte and Tehama Counties participated in furnishing information for compiling the basic information for this study. Appreciation is expressed to these growers.

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SAMPLE COSTS TO PRODUCE SUGAR BEETS
Butte, Glenn & Tehama Counties - Jan. 1975

Operation	Hours Per Acre	Cash and Labor Cost Per Acre			Total	Your Cost Per/A
		Labor	Fuel and Repairs	Materials Kind and Quantity Cost		
<u>Cultural Costs</u>						
Plow	.50	\$ 2.13	\$ 5.10		\$ 7.23	
Disk, Offset or Chisel (2x)	.32	1.36	4.53		5.89	
Field Cultivate and Harrow (2x)	.20	.85	2.25		3.11	
Landplane (bi-annually 2x)	.30	1.28	3.95		5.23	
Fertilize (Inject)	.20	.85	1.50	\$1/acre rental, 100 Lbs. N/A @\$0.20 = \$21.00	23.35	
Triplane	.20	.85	1.80		2.65	
List Beds and Preplant Fertilizer	.20	.85	1.34	20 lbs. N & 50 lbs. P ₂ O ₅ /A @\$195/T = 24.38	26.57	
Plant & Incorporate Herbicide	.50	2.13	6.70	Herb. banded \$7.80, seed \$4.95 12.75	21.58	
Early post emergence weed spray	.20	.85	1.08	Herbicide 10.73	12.66	
Roll Beds	.25	1.06	1.23		2.29	
Electronic Thin	.50	2.13	3.20		5.33	
Cultivate &/or rolling cultivator (3x)	.60	2.55	3.72		6.27	
Bait for Cutworms	.15	.64	.71	Insecticide 9.31	10.66	
Layby Herbicide and Incorporate (2x)	.53	2.26	3.40	Herbicide 6.32	11.98	
Mildew and/or Leaf Spot Control (2x)				Airplane \$7.20 Fungicide \$5.40 = 12.60	12.60	
Ditch preparation (season)	.20	.85	1.78		2.63	
Irrigate (9x) for season	7.20	23.40		Approx. 4 ac.ft./A @ \$4.00 16.00	39.40	
Hand Labor (thinning and/or weeding)		50.00			50.00	
Miscellaneous	1.50	6.38	1.00		7.38	
TOTAL CULTURAL COSTS	13.55	\$100.42	\$43.30	\$113.09	\$256.81	
<u>Harvest Costs</u>						
Dig		Contract, 22 tons/A @ \$1.50 per ton (net tons)			\$ 33.00	
Load and Haul (20 mile haul)		Contract, 23.1 tons/A @\$1.05 per ton plus non-reimbursed mileage costs (5% Tare)			27.34	
TOTAL HARVEST COSTS					\$ 60.34	
<u>Cash Overhead</u>						
Misc., Office, etc.					\$ 19.03	
Taxes & Insurance					3.42	
Rent 20% x 22 tons x \$30.00 per ton					132.00	
TOTAL CASH OVERHEAD					\$154.45	
TOTAL CASH COSTS					\$471.60	
Management 5% x 22 tons x \$30.00					\$ 33.00	
<u>Annual Costs</u>						
<u>INVESTMENT</u>	<u>Per Acre</u>	<u>Depreciation</u>	<u>Interest</u>			
Equip. & Shop Bldg.	\$ 231.69	\$23.63	\$9.24		\$ 32.87	
TOTAL COST PER ACRE					\$537.47	
Cost per ton @ 22 Tons/A yield					\$ 24.43	

NET PER ACRE AT 22 TONS PER ACRE
AND VARYING PRICES PER TON FOR SUGAR BEETS

Prices/Ton	\$20.00	\$25.00	\$ 30.00	\$ 35.00	\$ 40.00
Income/Acre	-\$42.47	+\$40.03	+\$122.53	+\$205.03	+\$287.53

The sample costs to produce sugar beets in Glenn, Butte and Tehama Counties as outlined in this pamphlet are basically sample costs as adapted from information furnished by growers. Specific operation and sequence of operations vary from grower to grower and year to year. A column is provided on the cost sheet for growers to figure and insert their individual costs.

Consult your farm advisor if you have questions regarding sugar beet production.

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