

W. E. Bendixen

Warren E. Bendixen
Edward A. Yeary

SUGAR BEETS
SANTA BARBARA COUNTY - 1974
Cost Analysis Work Sheet

SUGAR BEET YIELD - 28 tons/acre

Operating Costs/Hour

					Fuel & Repairs	Deprec.	Interest	Total
Equipment Operator - \$3.83 per hr. total					SWT - Wheel Tractor 40 hp	\$2.10	\$1.45	\$.72 \$ 4.27
					CT - Crawler tractor 80 hp	6.55	2.60	1.98 11.13
Other labor - 2.98 " " "					WT - Wheel Tractor 60 hp	2.70	1.60	.80 5.10

Operations	Tractor	Acres /hour	Hours /acre	Labor	Fuel & Repairs	Materials		Cost/Acre	
						Kind and Amount	Cost	Sample	Yours
		Ac	Hr	\$	\$		\$	\$	
Cultural Costs									
Disc	CT	4.0	.25	.96	1.64				2.60
Plow	CT	1.3	.75	2.87	4.91				7.78
Landplane	CT	2.0	.50	1.92	3.28				5.20
Disc 2x	CT	2.0	.50	1.92	3.28				5.20
List & fertilize-custom						Materials 80# N--100#P ₂ O ₅ Appl. \$4	53.20	53.20	
Plant	WT	2.0	.50	1.92	1.35	Seed - 3 lb. @ \$1.75	5.25	8.52	
Herbicide-custom							16.00	16.00	
Roll beds 2x	SWT	2.0	.50	1.92	1.05			2.97	
Hand thin-contact						\$35.00 plus 20%	42.00	42.00	
Irrigate 8x			12.00	35.76		3 acre ft. water @ \$7.50	22.50	58.26	
Fertilize - custom						Materials 70# N Appl. \$4	20.80	20.80	
Cultivation	SWT	.4	2.50	9.58	5.25			14.83	
Repairs to equipment					8.00			8.00	
Total Cultural Costs			17.50	\$56.85	\$28.76		\$159.75	\$245.36	
Harvesting Costs									
Mechanical Digger					Contract \$1.50 ton (cleaned beets)			42.00	
Haul					Contract \$1.50 ton (in-the-dirt:10% over cleaned weight)			46.20	
Total Harvest Costs								88.20	
Rent								\$125.00	
Business & miscellaneous costs					6% of cultural, harvest costs & rent			27.52	
Interest & Depreciation									
						Depreciation	Interest 8%		
					Tractors	\$10.80	\$6.76		
					Other equipment \$110	11.00	4.40		
Total Depreciation & Interest						\$21.80	\$11.16	\$32.96	
Total Cost per Acre								\$519.04	
Total Cost per ton @ 28 tons per acre								18.54	

SUGAR BEETS - PROFITS AS AFFECTED BY YIELD & PRICE

YIELD TONS/ACRE	TOTAL PRODUCTION COSTS/ACRE	SUGAR BEETS - PRICE PER TON							
		\$ 16.50	\$ 17.00	\$ 17.50	\$ 18.00	\$ 18.50	\$ 19.00	\$ 19.50	\$ 20.00
Cwt.	\$	\$ - Profit or Loss Per Acre							
18	487.50	-190.50	-181.50	-172.50	-163.50	-154.50	-145.50	-136.50	-127.50
20	493.80	-163.80	-153.80	-143.80	-133.80	-123.80	-113.80	-103.80	- 93.80
22	500.10	-137.10	-126.10	-115.10	-104.10	- 93.10	- 82.10	- 71.10	- 60.10
24	506.40	-110.40	- 98.40	- 86.40	- 74.40	- 64.40	- 50.40	- 38.40	- 26.40
26	512.70	- 83.70	- 70.70	- 57.70	- 44.70	- 32.70	- 18.70	- 5.70	+ 7.30
28	519.04	- 57.04	- 43.04	- 29.04	- 15.04	- 1.04	+ 12.96	26.96	40.96
30	525.30	- 30.30	- 15.30	- .30	+ 14.70	29.70	44.70	59.70	74.70
32	531.60	- 3.60	+ 12.40	28.40	44.40	60.40	76.40	92.40	108.40
34	537.90	+ 23.10	40.10	57.10	74.10	91.10	108.10	125.10	142.10
36	544.20	49.80	67.80	85.80	103.80	121.80	139.80	157.80	175.80
38	550.50	76.50	95.50	114.50	133.50	152.50	171.50	190.50	209.50
40	556.80	103.20	123.20	143.20	163.20	183.20	203.20	223.20	243.20
42	563.10	129.90	150.90	171.90	192.90	213.90	234.90	255.90	276.90

Cost of digging - below 20 tons/acre - \$30.00/acre.
 20 tons/acre and above - \$1.50/ton.
 Cost of hauling - @ \$1.50/ton.

Agricultural Extension
 University of California
 Santa Barbara County

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 2/6/74:20cc.