

COST & RETURNS SUMMARY FOR SUGAR BEETS  
 SAMPLE COSTS TO PRODUCE SUGAR BEETS BY W. SEYMAN  
 SANTA CLARA COUNTY 1980 D. DOUGLAS  
 YIELD: 31 TONS PER ACRE

\*\*\* SCS BUDGET \*\*\*

*Sugar beets  
# 282*

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
<b>1. GROSS RECEIPTS FROM PRODUCTION:</b>					
SUGAR BEETS	TON	50.000	31.000	1550.00	
TOTAL RECEIPTS:				1550.00	
<b>2. VARIABLE COSTS:</b>					
<b>PREHARVEST:</b>					
CUSTOM LIST	ACRE	7.750	1.000	7.75	
PRE-MERGE HERB	LBS.	13.000	2.500	32.50	
HERBICIDE APP	ACRE	7.500	2.000	15.00	
PRE-PLANT FERT.	LBS.	0.126	400.000	50.40	
FERTILIZER APP	ACRE	7.750	1.000	7.75	
RAW SEED	LBS.	3.400	1.500	5.10	
HERBICIDE	ACRE	11.950	1.000	11.95	
MILDEW CTL.	LBS.	0.110	5.000	0.55	
AERIAL SPRAYING	ACRE	12.500	1.000	12.50	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			60.68	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			13.99	
MACHINERY LABOR	HOUR	3.900	7.575	29.54	
IRRIGATION LABOR	HOUR	3.900	24.000	93.60	
INTEREST ON OPERATING CAP.	DOL.	0.07370	229.921	16.77	
TOTAL PREHARVEST COSTS:				358.08	
PREHARVEST COST PER TON				11.5510	
<b>HARVEST:</b>					
HARVEST & HAUL	TON	4.900	31.000	151.90	
TOTAL HARVEST COSTS:				151.90	
HARVEST COST PER TON				4.9000	
TOTAL VARIABLE COSTS:				509.98	
VARIABLE COST PER TON				16.4510	
<b>3. INCOME ABOVE VARIABLE COSTS:</b>					
INCOME PER TON				1040.02	
				33.5490	
<b>4. OVERHEAD:</b>					
PERSONAL PROPERTY TAXES:				9.77	
CASH RENT:				300.00	
TOTAL OVERHEAD:				309.77	
OVERHEAD COST PER TON				9.9926	
TOTAL CASH COSTS:				819.75	
TOTAL CASH COST PER TON				26.4436	
<b>5. INCOME ABOVE ALL CASH COSTS:</b>					
INCOME PER TON				730.25	
				23.5564	
<b>6. OWNERSHIP COSTS:</b>					
<b>DEPRECIATION:</b>					
MACHINERY & EQUIPMENT	ACRE			25.73	
TOTAL DEPRECIATION:				25.73	
<b>CAPITAL &amp; INTEREST:</b>					
MACHINERY & EQUIPMENT		0.07370	254.896	18.79	
TOTAL INTEREST CHARGE:				18.79	
TOTAL FIXED COSTS:				44.51	
FIXED COST PER TON				1.4359	
<b>7. TOTAL OF ABOVE COSTS:</b>					
TOTAL COST PER TON				864.26	
				27.8795	
<b>8. NET RETURNS:</b>					
NET RETURNS PER TON				685.74	
				22.1205	

BASED ON 100 ACRES SUGAR BEETS ON 640 ACRE FARM  
 HANDMOVE SPRINKLER IRRIGATION: 28.5 ACIN PER YEAR  
 CASH RENT BASIS IF COATED SEED USED: 4 LBS @ \$1.77  
 DATE PRINTED: 02/05/81 HARVEST MONTH: 10

*Updated 2/5/81*  
 BUDGET RECORD NUMBER 282

19. default data

CASH FLOW & INVESTMENT SUMMARY FOR SUGAR BEETS

\*\*\* SCS BUDGET \*\*\*

BUDGET RECORD NUMBER 282

SAMPLE COSTS TO PRODUCE SUGAR BEETS BY W. SEYMAN  
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MONTHLY SUMMARY OF RECEIPTS AND EXPENSES

CATEGORY	UNIT	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1550.00	0.00	0.00	1550.00
<b>OPERATING EXPENSES</b>														
CUSTOM LIST	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.75	7.75
PRE-MERGE HERB	\$/AC	32.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	32.50
HERBICIDE APP	\$/AC	7.50	0.00	7.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
PRE-PLANT FERT.	\$/AC	50.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	50.40
FERTILIZER APP	\$/AC	7.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7.75
RAW SEED	\$/AC	5.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.10
HERBICIDE	\$/AC	0.00	0.00	11.95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.95
MILDEW CTL.	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.00	0.00	0.00	0.00	0.00	0.55
AERIAL SPRAYING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	12.50	0.00	0.00	0.00	0.00	0.00	12.50
HARVEST & HAUL	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	151.90	0.00	0.00	151.90
MACHINE LABOR COST	\$/AC	3.83	0.00	0.97	0.97	0.00	0.00	0.00	0.00	0.00	1.05	21.81	0.90	29.54
INTEREST ON OPER. CAP.	\$/AC	6.28	0.00	0.94	0.53	0.71	0.92	0.92	0.46	0.00	0.00	5.36	0.64	16.77
TRACTOR COST	\$/AC	5.42	0.00	1.37	1.37	0.00	0.00	0.00	0.00	0.00	3.29	47.95	1.27	60.68
EQUIPMENT COST	\$/AC	2.21	0.00	0.42	0.42	0.00	0.00	0.00	0.00	0.00	0.54	9.85	0.55	13.99
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	7.80	15.60	23.40	23.40	23.40	0.00	0.00	0.00	0.00	93.60
TOTAL EXPENSES	\$/AC	121.00	0.00	23.15	15.10	24.33	39.36	52.42	38.90	0.00	156.79	84.98	11.11	509.98

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

	HR/AC	0.98	0.00	0.25	0.25	0.00	0.00	0.00	0.00	0.00	0.27	5.59	0.23	7.58
MACHINE LABOR	HR/AC	0.00	0.00	0.00	2.00	4.00	6.00	6.00	6.00	6.00	0.00	0.00	0.00	24.00
IRRIGATION LABOR	ACIN	0.00	0.00	0.00	2.00	4.00	7.50	7.50	7.50	0.00	0.00	0.00	0.00	28.50
IRRIG. WATER APPLIED														

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE			VARIABLE COST PER ACRE					HRS PER ACRE
						DEPR.	INTER.	TAX & INS	TOTAL	FUEL	LUBE	REPAIRS	TOTAL	
TRAC 70HP	4	75.0	17400.	12.	1000.	1.69	1.25	0.61	3.55	5.38	0.81	3.25	9.43	1.556
TRAC 150HP	7	150.0	40000.	12.	1000.	2.84	2.09	1.02	5.96	7.86	1.18	5.46	14.49	1.137
TRACTOR 150HP	8	150.0	40000.	12.	1000.	1.84	1.36	0.66	3.86	5.94	0.89	3.54	10.37	0.737
CRAWLER 75HP	11	75.0	49020.	17.	900.	9.25	8.08	4.24	21.57	13.94	2.09	10.36	26.39	3.457
IRR PUMP 75 HP*	22	2.0	0.	25.	3200.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.250
BED SHAPER 6ROW	50	15.0	5190.	15.	100.	1.19	0.80	0.44	2.43	0.00	0.02	1.09	1.11	0.381
CULTIVATOR 6ROW	53	15.0	3960.	15.	140.	0.70	0.47	0.26	1.44	0.00	0.02	0.82	0.83	0.412
DISK OFFSET	60	14.0	4320.	15.	145.	1.20	0.81	0.45	2.46	0.00	0.03	1.60	1.63	0.670
DISK OFFSET	61	14.0	4320.	15.	145.	1.20	0.81	0.45	2.46	0.00	0.03	1.60	1.63	0.670
SPIKE HARROW	73	16.0	2300.	13.	190.	0.20	0.12	0.07	0.40	0.00	0.01	0.32	0.33	0.248
4 WH PLANE 16X60	86	16.0	14520.	9.	280.	1.68	0.83	0.42	2.94	0.00	0.02	0.77	0.79	0.364
RIPPER, 3 SHANK	90	3.5	4000.	10.	320.	3.23	1.70	0.88	5.82	0.00	0.12	6.22	6.35	3.143
PLANTER 6ROW	109	15.0	4140.	15.	135.	0.69	0.46	0.26	1.41	0.00	0.03	1.31	1.33	0.373
SPRINK-FURROW*	131	2.0	0.	20.	5000.	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	14.250

MACHINERY & EQUIPMENT 1892. 25.73 18.79 9.77 54.28 33.11 5.24 36.31 74.67

INVESTMENT & COSTS PER ACRE

TOTAL INVESTMENT 189170.

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 HANDMOVE SPRINKLER IRRIGATION: 28.5 ACIN PER YEAR  
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 DATE PRINTED: 02/05/81

updated 2/5/81

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 282  
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FUEL USED IN GALLONS PER HOUR

TRACTOR 70HP 3.600  
 TRACTOR 150HP 7.200  
 TRACTOR 150HP 8.400  
 CRAWLER 75HP 4.200  
 IRR PUMP 75 HP\* 18.379 (KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
DISK OFFSET	2.063	TRACTOR 150HP
DISK OFFSET	1.768	TRACTOR 150HP
RIPPER, 3 SHANK	7.260	CRAWLER 75HP
4 WH PLANE 16X60	1.440	TRACTOR 150HP
BED SHAPER 6ROW	0.754	TRACTOR 70HP
SPIKE HARROW	0.984	TRACTOR 70HP
PLANTER 6ROW	1.478	TRACTOR 70HP
CULTIVATOR 6ROW	0.816	TRACTOR 70HP
SPRINK-FURROW*	261.908 (KWHRS)	IRR PUMP 75 HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISK OFFSET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.031	5.156	0.000	6.188	DIESEL
DISK OFFSET	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.884	4.420	0.000	5.304	DIESEL
RIPPER, 3 SHANK	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	14.520	0.000	14.520	DIESEL
4 WH PLANE 16X60	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.881	0.000	2.881	DIESEL
BED SHAPER 6ROW	0.754	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.754	1.508	DIESEL
SPIKE HARROW	0.984	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.984	DIESEL
PLANTER 6ROW	1.478	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.478	DIESEL
CULTIVATOR 6ROW	0.000	0.000	0.816	0.816	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.631	DIESEL
SPRINK-FURROW*	0.000	0.000	0.000	18.379	36.759	68.923	68.923	68.923	0.000	0.000	0.000	0.000	261.908	KWH
TOTALS	3.216	0.000	0.816	19.195	36.759	68.923	68.923	68.923	0.000	1.915	26.977	0.754	34.493	

GALLONS FUEL BY TYPE  
 0.00 GAS  
 0.00 LP  
 34.49 DIESEL  
 0.00 N. GAS  
 261.91 KWHRS

FUEL TYPES  
 1=GAS  
 2=L.P.  
 3=DIESEL  
 4=N. GAS  
 5=ELEC.

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 CASH RENT BASIS IF COATED SEED USED: 4 LBS @ \$1.77  
 DATE PRINTED: 02/05/81

*updated 2/5/81*







Additional Notes: Sugar Beets  
Santa Clara County 1980

Data Base: 100 acres sugar beets of 600-700 acre farm

A. Production

Yield: 31 ton per acre

B. Operating Inputs

Preharvest:

- |    |  |   |
|----|--|---|
| 1. | Pre-plant fertilizer: 16-20                        | Raw seed: 1.5 lb/ac @ \$3.40                                      |
| 2. | Seed: 40"beds                                      | If raw seed bought and then<br>coated (6:1 ratio): 4 lbs @ \$1.77 |
| 3. | Mildew control: sulfur w/ aerial spray application |   |

C. Machinery Requirements

- |     |              |             |                                |
|-----|--------------|-------------|--------------------------------|
| 1.  | Disk         | 1x October  | utilizing two disks and 150 hp |
|     |              | 1x November | tractors (50% acreage each)    |
| 2.  | Rip          | 2x "        |                                |
| 3.  | Disk         | 2x "        | " "                            |
| 4.  | Landplane    | 2x "        |                                |
| 5.  | Disk         | 2x "        | " "                            |
| 6.  | Bed shaper   | 1x December |                                |
| 7.  | Spike harrow | 1x January  | work beds                      |
| 8.  | Bed shaper   | 1x "        |                                |
| 9.  | Planter      | 1x "        |                                |
| 10. | Cultivator   | 1x March    | w/herbicide spray              |
|     |              | 1x April    |                                |

Multiple Investments:

- 2 150 hp tractors
- 2 offset disks

D. Irrigation Schedule

Beginning April 1, sprinkle 2.5 ACIN every 10-12 days  
(3x/month) until August