

TITLE: COSTS FOR PRODUCING SUGAR BEETS BY DON MAY 1980
 FRESNO CO. FARM ADVISOR
 YIELD: 27 TONS CLEAN BEETS PER ACRE

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
SUGAR BEETS	TON	30.000	27.000	\$ 810.00	
TOTAL RECEIPTS:				\$ 810.00	
2. VARIABLE COSTS:					
PREHARVEST:					
SUGAR BEET SEED	LBS.	3.000	3.000	\$ 9.00	
INSECTICIDE	ACRE	25.500	1.000	25.50	
NITROGEN	LBS.	0.150	100.000	15.00	
HERBICIDE	LBS.	12.000	1.000	12.00	
HAND HOEING	HR	3.000	4.000	12.00	
HERBICIDE	LBS.	6.000	1.000	6.00	
IRRIG DIST WATER	ACIN	1.000	45.000	45.00	
MISCL EXPENSE	ACRE	30.000	1.000	30.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			20.83	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			6.64	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			1.04	
IRRIGATION (POWER-LUBE-REP)	ACIN	0.188	45.000	8.47	
MACHINERY LABOR	HR	5.500	2.585	14.22	
IRRIGATION LABOR	HR	4.500	12.000	54.00	
INTEREST ON OPERATING CAP.	DOL.	0.130	126.882	16.06	
TOTAL PREHARVEST COSTS:				\$ 275.76	
PREHARVEST COST PER TON				\$ 10.2133	
HARVEST:					
DIGGING	TON	1.750	27.000	47.25	
CUSTOM HAULING	TON	0.070	27.000	1.89	
LOADING	TON	1.500	27.000	40.50	
TOTAL HARVEST COSTS:				\$ 89.64	
HARVEST COST PER TON				\$ 3.3200	
TOTAL VARIABLE COSTS:				\$ 365.40	
VARIABLE COST PER TON				\$ 13.5333	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER TON				\$ 444.60	
				\$ 16.4667	
4. CASH OVERHEAD:					
REAL PROPERTY TAXES:				11.00	
MISC. OFFICE & BOOKKEEPING (9.00% OF TOTAL VARIABLE COSTS)				32.89	
TOTAL CASH OVERHEAD:				\$ 43.89	
OVERHEAD COST PER TON				1.6254	
5. INCOME ABOVE ALL CASH COSTS:					
INCOME PER TON				\$ 400.72	
				\$ 14.8413	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			11.46	
IRRIGATION SYSTEM	ACRE			18.07	
BUILDINGS	ACRE			5.30	
TOTAL DEPRECIATION:				\$ 34.83	
CAPITAL & INTEREST:					
MACHINERY&EQUIPMENT		0.130	112.116	14.58	
IRRIGATION SYSTEM		0.130	185.904	24.17	
BUILDINGS		0.107	104.277	11.13	
LAND		0.107	1500.000	160.05	
TOTAL INTEREST CHARGE:				\$ 209.92	
TOTAL FIXED COSTS:				\$ 244.75	
FIXED COST PER TON				9.0649	
7. TOTAL OF ABOVE COSTS:					
TOTAL COST PER TON				\$ 654.04	
				24.2236	
NET RETURNS:				\$ 155.96	
NET RETURNS PER TON				5.7764	

FURROW IRRIGATION-DISTRICT WATER
 150 ACRES PLANTED

UPDATED 03/11/80

UC Cooperative Extension

BUDGET IDENTIFICATION NUMBER 2321000000 362 1
 DATE PRINTED: 06/09/80

BUDGET RECORD NUMBER 159
 HARVEST MONTH: 10

1980 default data

IDENTIFICATION NUMBER 2321000000 362 1
 COSTS FOR PRODUCING SUGAR BEETS
 FRESNO CO.
 YIELD: 27 TONS CLEAN BEETS PER ACRE

HARVEST MONTH 10
 BY DON MAY
 FARM ADVISOR

BUDGET RECORD NUMBER 159

CATEGORY	UNIT	MONTHLY SUMMARY OF RECEIPTS AND EXPENSES												TOTAL
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
TOTAL RECEIPTS	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	810.00	0.00	0.00	810.00
OPERATING EXPENSES														
SUGAR BEET SEED	\$/AC	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.00
INSECTICIDE	\$/AC	0.00	0.00	0.00	25.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.50
NITROGEN	\$/AC	0.00	15.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	15.00
HERBICIDE	\$/AC	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
HAND HOEING	\$/AC	0.00	0.00	12.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.00
DIGGING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	47.25	0.00	0.00	47.25
CUSTOM HAULING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.89	0.00	0.00	1.89
HERBICIDE	\$/AC	0.00	0.00	0.00	6.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00
LOADING	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	40.50	0.00	0.00	40.50
IRRIG DIST WATER	\$/AC	0.00	4.50	0.00	0.00	4.50	9.00	13.50	9.00	4.50	0.00	0.00	0.00	45.00
MISCL EXPENSE	\$/AC	2.49	2.49	2.52	2.52	2.49	2.49	2.49	2.49	2.52	2.52	2.49	2.49	30.00
MACHINE LABOR COST	\$/AC	5.87	3.13	0.06	1.09	2.62	1.09	0.06	0.18	0.12	0.00	0.00	0.00	14.22
INTEREST ON OPER. CAP.	\$/AC	1.98	5.29	1.76	2.92	1.25	1.06	0.86	0.28	0.09	0.00	0.30	0.27	16.06
TRACTOR COST	\$/AC	8.82	4.74	0.00	1.62	4.03	1.62	0.00	0.00	0.00	0.00	0.00	0.00	20.93
EQUIPMENT COST	\$/AC	3.39	1.55	0.06	0.45	0.38	0.45	0.06	0.18	0.12	0.00	0.00	0.00	6.64
BLDG OPER. COST	\$/AC	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	1.04
IRRIGATION COST	\$/AC	0.00	0.85	0.00	0.00	0.85	1.69	2.54	1.69	0.85	0.00	0.00	0.00	8.47
IRRIG LABOR COST	\$/AC	0.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00	0.00	0.00	0.00	0.00	54.00
TOTAL EXPENSES	\$/AC	22.64	67.64	25.48	49.18	25.21	26.49	28.60	13.92	8.28	92.25	2.87	2.84	365.40

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	1.07	0.57	0.01	0.20	0.48	0.20	0.01	0.03	0.02	0.00	0.00	0.00	2.58
IRRIGATION LABOR	HR/AC	0.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	12.00
S. WATER APPLIED	ACIN	0.00	4.50	0.00	0.00	4.50	9.00	13.50	9.00	4.50	0.00	0.00	0.00	45.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANNUAL HOURS USED	FIXED COST PER ACRE				VARIABLE COST PER ACRE				HRS PER ACRE
						DEPR.	INTER.	TAX & INS	TOTAL	FUEL	LUBE	REPAIRS	TOTAL	
TRACTOR 105 HP	6	105.0	33000.	12.	1000.	2.60	3.38	0.94	6.92	6.10	0.92	4.99	12.01	1.261
CRAWLER 85 HP	11	85.0	66000.	17.	900.	3.42	5.27	1.57	10.26	4.34	0.65	3.83	8.82	0.950
PICKUP 1/2 T	14	0.5	9000.	3.	1350.	0.17	0.08	0.02	0.26	0.61	0.09	0.16	0.86	0.127
IRR PUMP 75 HP*	22	2.0	13670.	25.	3200.	3.52	6.78	2.16	12.46	3.80	0.06	1.97	5.83	22.500
CHISEL	42	10.0	3600.	10.	270.	0.36	0.33	0.10	0.78	0.00	0.01	0.65	0.66	0.324
CULTIVATOR 8 ROW	54	20.0	5280.	15.	90.	1.09	1.29	0.41	2.79	0.00	0.02	0.76	0.78	0.309
DISC OFFSET HDTY	63	21.0	11160.	15.	110.	1.82	2.15	0.68	4.65	0.00	0.05	2.25	2.30	0.298
LISTER 6 ROW	83	15.0	2400.	13.	190.	0.15	0.16	0.05	0.36	0.00	0.00	0.24	0.24	0.173
4 WH PLANE 12X45	85	12.0	8520.	7.	340.	0.65	0.50	0.14	1.28	0.00	0.01	0.29	0.30	0.243
SPRAYER	93	15.0	2040.	14.	180.	0.28	0.31	0.10	0.69	0.00	0.01	0.32	0.32	0.385
PLANTER 8ROW	110	20.0	5520.	15.	100.	0.93	1.10	0.35	2.38	0.00	0.02	1.16	1.18	0.280
FURROW IRIG SYS*	132	2.0	45900.	10.	5000.	14.55	17.39	4.65	36.59	0.00	0.05	2.59	2.64	22.500
FARM SHOP	2		14321.	35.		2.45	5.60	0.95	9.01	0.95		0.04	1.00	
TOOLS-SHOP EQUIP	4		4177.	15.		1.30	1.93	0.28	3.51	0.00		0.04	0.04	
STORAGE SHED	8		8951.	35.		1.53	3.50	0.60	5.63	0.00		0.01	0.01	
FUELTANK 550 GAL	18		159.	30.		0.01	0.09	0.01	0.12	0.00		0.00	0.00	
MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE			1558.			34.83	49.87	12.99	97.69	15.81	1.88	19.30	36.98	

TOTAL INVESTMENT 233697.

FURROW IRRIGATION-DISTRICT WATER
 150 ACRES PLANTED

UC Cooperative Extension

UPDATED 03/11/80

COSTS FOR PRODUCING SUGAR BEETS BY DON MAY
 FRESNO CO. FARM ADVISOR
 YIELD: 27 TONS CLEAN BEETS PER ACRE

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
CHISEL	11,	42 JAN	1.00	0.391	0.324	3.97	4.63
DISC OFFSET HDTY	11,	63 JAN	2.00	0.360	0.298	5.34	8.19
4 WH PLANE 12X45	11,	85 JAN	1.00	0.293	0.243	2.78	4.16
PICKUP 1/2 T		14 JAN	1.00	0.022	0.018	0.12	0.04
LISTER 6 ROW	6,	83 FEB	1.00	0.209	0.173	2.05	1.40
PLANTER 8ROW	6,	110 FEB	1.00	0.339	0.280	4.11	4.07
PICKUP 1/2 T		14 FEB	1.00	0.022	0.018	0.12	0.04
PICKUP 1/2 T		14 MAR	0.50	0.011	0.009	0.06	0.02
CULTIVATOR 8 ROW	6,	54 APR	1.00	0.187	0.154	2.01	2.33
PICKUP 1/2 T		14 APR	0.50	0.011	0.009	0.06	0.02
SPRAYER	6,	93 MAY	1.00	0.465	0.385	4.35	3.01
PICKUP 1/2 T		14 MAY	0.50	0.011	0.009	0.06	0.02
CULTIVATOR 8 ROW	6,	54 JUNE	1.00	0.187	0.154	2.01	2.33
PICKUP 1/2 T		14 JUNE	0.50	0.011	0.009	0.06	0.02
PICKUP 1/2 T		14 JULY	0.50	0.011	0.009	0.06	0.02
PICKUP 1/2 T		14 AUG	1.50	0.033	0.027	0.18	0.06
PICKUP 1/2 T		14 SEPT	1.00	0.022	0.018	0.12	0.04
TOTALS				2.585	2.137	27.48	30.37

FURROW IRRIGATION-DISTRICT WATER
 150 ACRES PLANTED

UPDATED 03/11/80
 UC Cooperative Extension

BUDGET IDENTIFICATION NUMBER--- 2321000000 362 1
 ANNUAL CAPITAL MONTH 10 BUDGET RECORD NUMBER 159

FUEL USE SUMMARY FOR BUDGET NUMBER 2321000000 362 1

COSTS FOR PRODUCING SUGAR BEETS BY DON MAY
 FRESNO CO. FARM ADVISOR
 YIELD: 27 TONS CLEAN BEETS PER ACRE

FUEL USED IN GALLONS PER HOUR

TRACTOR 105 HP 5.040
 CRAWLER 85 HP 4.760
 PICKUP 1/2 T 4.000
 IRR PUMP 75 HP* 0.038

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 T	0.073	
IRR PUMP 75 HP*	0.019	
CHISEL	1.694	CRAWLER 85 HP
DISC OFFSET HDTY	0.779	CRAWLER 85 HP
4 WH PLANE 12X45	1.270	CRAWLER 85 HP
LISTER 6 ROW	0.957	TRACTOR 105 HP
PLANTER 8ROW	1.551	TRACTOR 105 HP
SPRAYER	2.132	TRACTOR 105 HP
CULTIVATOR 8 ROW	0.857	TRACTOR 105 HP

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FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
CHISEL	1.694	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.694	3
DISC OFFSET HDTY	1.558	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.558	3
PLANE 12X45	1.270	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.270	3
IR 6 ROW	0.000	0.957	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.957	3
PLANTER 8ROW	0.000	1.551	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.551	3
SPRAYER	0.000	0.000	0.000	0.000	2.132	0.000	0.000	0.000	0.000	0.000	0.000	0.000	2.132	3
CULTIVATOR 8 ROW	0.000	0.000	0.000	0.857	0.000	0.857	0.000	0.000	0.000	0.000	0.000	0.000	1.713	3
PICKUP 1/2 T	0.073	0.073	0.036	0.036	0.036	0.036	0.036	0.109	0.073	0.000	0.000	0.000	0.509	1
TOTALS	4.595	2.582	0.036	0.893	2.169	0.893	0.036	0.109	0.073	0.000	0.000	0.000	11.385	

GALLONS FUEL BY TYPE
 0.51 GAS
 0.00 LP
 10.88 DIESEL

UC Cooperative Extension

FUEL TYPES
 1=GAS
 2=L.P.
 3=DIESEL

STORED DATA PAGE (NO CALCULATIONS) FOR SUGAR BEETS

BUDGET RECORD NUMBER 159

COSTS FOR PRODUCING SUGAR BEETS

BY DON MAY 1980
FARM ADVISOR

COSTS AND RETURNS WILL BE
DIVIDED BY 27.0 TON
TO OBTAIN PER TON COSTS

FRESNO CO.
YIELD: 27 TONS CLEAN BEETS PER ACRE

LINE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
PRODUCTION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	PRICE	SHARE	UNIT	ITEM	TYPE	XXXX
1 SUGAR BEETS	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	0.00	30.000	0.000	3.	32.	2.	0.
OPERATING INPUTS																		
	RATE/UNIT												PRICE	SHARE	UNIT	ITEM	TYPE	HARV
													RENT	CODE	CODE	CODE	CODE	
7 SUGAR BEET SEED	0.00	3.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.000	0.000	12.	132.	3.	0.
8 INSECTICIDE	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.500	0.000	7.	240.	3.	0.
9 NITROGEN	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.150	0.000	12.	211.	3.	0.
10 HERBICIDE	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	12.000	0.000	12.	250.	3.	0.
11 HAND HOEING	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.000	0.000	8.	335.	3.	0.
12 DIGGING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	0.00	1.750	0.000	3.	315.	3.	9.
13 CUSTOM HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	0.00	0.070	0.000	3.	306.	3.	9.
14 HERBICIDE	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.000	0.000	12.	250.	3.	0.
15 LOADING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	27.00	0.00	0.00	1.500	0.000	3.	345.	3.	9.
16 IRRIG DIST WATER	0.00	4.50	0.00	0.00	4.50	9.00	13.50	9.00	4.50	0.00	0.00	0.00	1.000	0.000	11.	323.	3.	0.
17 MISCL EXPENSE	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	30.000	0.000	7.	400.	3.	0.

MACHINERY REQUIREMENTS	IMPLEMENTS = TIRES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE												# CREW	POWER	MACH	TYPE	HARV	
													LABOR	UNIT	CODE	CODE	CODE	
26 CHISEL	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	11.	42.	4.	0.
27 DISC OFFSET HDTY	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	11.	63.	4.	0.
28 4 WH PLANE 12X45	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	11.	85.	4.	0.
29 LISTER 6 ROW	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	6.	83.	4.	0.
30 PLANTER BROW	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	6.	110.	4.	0.
31 SPRAYER	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	6.	93.	4.	0.
32 CULTIVATOR 8 ROW	0.00	0.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	6.	54.	4.	0.
33 PICKUP 1/2 T	1.00	1.00	0.50	0.50	0.50	0.50	0.50	1.50	1.00	0.00	0.00	0.00	0.000	0.000	0.	14.	4.	0.
49 IRRIG WATER	0.00	4.50	0.00	0.00	4.50	9.00	13.50	9.00	4.50	0.00	0.00	0.00	0.00	0.00	0.00	22.	132.	0.
50 NO. TIMES IRRIG	0.00	2.00	2.00	2.00	2.00	2.00	2.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.	132.	0.

EQUIPMENT REQUIREMENTS	NUMBER	PROPORT	XXX	EQUIP	TYPE	XXXX
	UNITS	OF COST	CODE	CODE	CODE	CODE
51 FARM SHOP	1.000	0.340	0.	2.	5.	0.
52 TOOLS-SHOP EQUIP	1.000	0.340	0.	4.	5.	0.
53 STORAGE SHED	1.000	0.340	0.	8.	5.	0.
54 FUELTANK 550 GAL	1.000	0.340	0.	18.	5.	0.

LAND REQUIREMENTS	2	3	4	5	6	7	8
	CHARGE	NUMBER	VALUE OR	TAXES	PERENHIAL CROPS	PER ACRES	YRS LIFE
	METHOD	OF ACRES	COST/ACRE	PER ACRE	YRS LIFE	COST/ACRE	COST/ACRE
71 ENTERPRISE 2-32 REGION/COUNTY 10 UNASSIGNED 00000 MACH COMP 3 IRIG SYST 6 UNASSIGNED 2 EQUIP SET 1 HARVEST MONTH 10	1.	150.00	1500.00	11.00	0.0	0.00	0.00

FURROW IRRIGATION-DISTRICT WATER
150 ACRES PLANTED

UPDATED 03/11/80
MACHINERY COMPLEMENT 3
EQUIPMENT COMPLEMENT 1

GENERAL NAME CHANGE->345	LOADING	LOADING	LOADING	LOADING	LOADING
LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE	LINE CHANGE
RW CL	VALUE	RW CL	VALUE	RW CL	VALUE
1980 default data	0.130000	10.	5.500000	11.	4.500000
				12.	4.500000
				18.	1.00000028.
					0.090000

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