

TITLE: COSTS FOR PRODUCING SUGAR BEETS
IN SAN JOAQUIN COUNTY
YIELD OF 28.8 TONS/ACRE

SG-VN-78-2

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
SUGAR BEETS	TON	23.000	28.800	662.40	
TOTAL RECEIPTS:				\$ 662.40	
2. VARIABLE COSTS:					
PREHARVEST:					
		\$		\$	
ANHY AMMONIA	LBS.	0.250	150.000	37.50	
HERBICIDE	LBS.	5.750	5.750	33.06	
SUGAR BEET SEED	LBS.	2.300	3.000	6.90	
MITICIDE	LBS.	1.700	10.000	17.00	
HERBICIDE	LBS.	10.880	0.750	8.16	
AERIAL SPRAYING	ACRE	3.500	2.000	7.00	
CUT WORM BAIT	LBS.	0.360	40.000	14.40	
INSECTICIDE	ACRE	19.500	1.000	19.50	
SULPHER	LBS.	0.080	70.000	5.60	
HAND HOEING	HOOR	3.560	10.000	35.60	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			34.82	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			12.10	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			0.15	
IRRIGATION POWER COST	ACRE			28.15	
IRRIGATION (LUBE-REPAIRS)	ACRE			5.30	
IRRIGATION WATER APPLIED	ACIN	0.619	54.000		
MACHINERY LABOR	HOOR	5.100	3.623	18.48	
IRRIGATION LABOR	HOOR	4.250	17.250	73.31	
INTEREST ON OPERATING CAP.	DOL.	0.086	220.954	19.07	
TOTAL PREHARVEST COSTS:				\$ 376.09	
PREHARVEST COST PER TON				\$ 13.06	
HARVEST:					
		\$		\$	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			11.13	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			7.62	
MACHINERY LABOR	HOOR	5.100	2.322	11.84	
INTEREST ON OPERATING CAP.	DOL.	0.086	12.591	1.09	
TOTAL HARVEST COSTS:				\$ 31.68	
HARVEST COST PER TON				\$ 1.10	
TOTAL VARIABLE COSTS:				\$ 407.77	
VARIABLE COST PER TON				\$ 14.16	
3. INCOME ABOVE VARIABLE COSTS:					
INCOME PER TON				\$ 254.63	
				\$ 8.84	
4. CASH OVERHEAD: (PROPERTY TAX & INSURANCE + 2.5% OF TOTAL VARIABLE COSTS)					
				\$ 19.48	
LAND TAXES:				22.00	
BUILDINGS:				0.35	
TOTAL CASH OVERHEAD:				\$ 41.83	
5. OWNERSHIP COSTS:					
DEPRECIATION:					
				\$	
MACHINERY & EQUIPMENT	ACRE			16.89	
IRRIGATION SYSTEM	ACRE			18.07	
BUILDINGS:	ACRE			0.53	
TOTAL DEPRECIATION:				\$ 35.49	
CAPITAL & INTEREST:					
				\$	
MACHINERY & EQUIPMENT		0.086	98.147	8.47	
IRRIGATION SYSTEM		0.086	185.887	16.04	
BUILDINGS:		0.086	9.984	0.86	
TOTAL INTEREST CHARGE:				\$ 25.37	
TOTAL FIXED COSTS:				\$ 102.69	
FIXED COST PER TON				3.57	
NET INCOME ABOVE FIXED & VARIABLE COSTS:				\$ 151.93	
NET INCOME PER TON				5.28	
6. MANAGEMENT CHARGE (5.0% OF GROSS RECEIPTS)					
				\$ 33.12	
7. LAND CHARGE (\$ 1400.00 @ 8.3%):					
				\$ 115.50	
8. TOTAL OF ABOVE COSTS :					
TOTAL COST PER TON				\$ 659.09	
				22.88	
9. NET RETURNS:					
NET RETURNS PER TON				\$ 3.31	
				0.12	

FOOTNOTE: BASED ON 240 ACRES
FURROW IRRIGATED
SPRING HARVEST

BUDGET IDENTIFICATION: ENTERPRISE 232 COUNTY 39 MISCL 00 IRRIGATION LEVEL 9 LAND CLASS 2
INDIV. # 0 MACH. COMP. 5 IRIG. SYSTEM 6 PRICE VECTOR 2 EQUIP COMP 1
DATE PRINTED: 07/18/78 ANNUAL CAPITAL MONTH: 3

07/18/78

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	662.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	662.40
OPERATING EXPENSES														
ANHY AMMONIA	\$/AC	0.00	0.00	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.50
HERRICIDE	\$/AC	0.00	0.00	0.00	28.75	0.00	0.00	4.31	0.00	0.00	0.00	0.00	0.00	33.06
SUGAR BEET SEED	\$/AC	0.00	0.00	0.00	6.90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.90
MITICIDE	\$/AC	0.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00
HERBICIDE	\$/AC	0.00	0.00	0.00	0.00	0.00	8.16	0.00	0.00	0.00	0.00	0.00	0.00	8.16
AERIAL SPRAYING	\$/AC	0.00	0.00	0.00	3.50	0.00	3.50	0.00	0.00	0.00	0.00	0.00	0.00	7.00
CUT WORM BAIT	\$/AC	0.00	0.00	0.00	0.00	0.00	14.40	0.00	0.00	0.00	0.00	0.00	0.00	14.40
INSECTICIDE	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	19.50	0.00	0.00	0.00	0.00	19.50
SULPHUR	\$/AC	0.00	0.00	0.00	0.00	0.00	0.00	2.80	0.00	2.80	0.00	0.00	0.00	5.60
HAND HOING	\$/AC	0.00	0.00	0.00	0.00	21.36	0.00	0.00	14.24	0.00	0.00	0.00	0.00	35.60
MACHINE LABOR COST	\$/AC	0.00	0.00	9.64	3.98	4.34	1.75	1.75	0.11	0.11	6.96	1.66	0.00	30.32
INTEREST ON OPER. CAP.	\$/AC	0.00	0.00	0.48	6.20	3.61	3.21	2.13	2.44	0.56	1.31	0.20	0.00	20.15
TRACTOR COST	\$/AC	0.00	0.00	10.66	4.50	4.48	2.11	2.11	0.00	0.00	17.37	4.72	0.00	45.95
EQUIPMENT COST	\$/AC	0.00	0.00	9.53	3.60	2.32	0.75	0.75	0.07	0.07	2.11	0.51	0.00	19.72
BLDG OPER. COST	\$/AC	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.15
IRRIGATION COST	\$/AC	0.00	0.00	0.00	3.72	4.96	6.19	6.19	4.96	3.72	3.72	0.00	0.00	33.45
IRRIG LABOR COST	\$/AC	0.00	0.00	0.00	6.38	12.75	12.75	19.13	9.56	6.38	6.38	0.00	0.00	73.31
TOTAL EXPENSES	\$/AC	0.01	0.01	67.83	84.53	53.84	52.85	39.19	50.89	13.65	37.86	7.10	0.01	407.77

MONTHLY IRRIGATION AND LABOR REQUIREMENTS														
MACHINE LABOR	HR/AC	0.00	0.00	1.89	0.78	0.85	0.34	0.34	0.02	0.02	1.36	0.33	0.00	5.94
IRRIGATION LABOR	HR/AC	0.00	0.00	0.00	1.50	3.00	3.00	4.50	2.25	1.50	1.50	0.00	0.00	17.25
IRRIG. WATER APPLIED	ACIN	0.00	0.00	0.00	6.00	8.00	10.00	10.00	8.00	6.00	6.00	0.00	0.00	54.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANNUAL FIXED COST PER ACRE			VARIABLE COST PER ACRE				HRS PER ACRE		
					HOURS USED	DEPR.	INTER.	TAX & INS.	TOTAL	FUEL	LUBE		REPAIRS	
TRACTOR 40 HP	1	40.0	9500.	5.	2800.	0.050	0.029	0.010	0.089	0.187	0.028	0.166	0.381	0.134
TRACTOR 90 HP	4	90.0	23000.	5.	2800.	0.740	0.419	0.148	1.307	1.621	0.243	2.432	4.297	0.816
TRACTOR 120 HP	6	120.0	30000.	5.	2800.	1.970	1.116	0.395	3.481	4.047	0.607	6.079	11.133	1.666
TRACT 4WD 225HP	8	175.0	50000.	5.	2800.	2.366	1.340	0.474	4.180	6.959	1.044	6.484	14.486	1.201
TRACT 4WD 300HP	9	225.0	65000.	5.	2800.	2.521	1.428	0.505	4.454	7.605	1.141	6.909	15.655	0.984
SEMI-TRACTOR	12	5.0	29500.	6.	2500.	0.584	0.264	0.100	0.948	1.171	0.176	1.238	2.585	0.407
PICKUP 1/2 TON	14	0.5	7500.	2.	2400.	0.120	0.029	0.010	0.159	0.337	0.051	0.159	0.548	0.145
TRW PUMP 75 HP*	22	2.0	11388.	25.	3200.	3.518	4.497	1.863	9.878	28.147	0.422	2.237	30.806	27.000
CHISEL	42	12.0	3600.	3.	750.	0.252	0.079	0.028	0.359	0.000	0.010	0.496	0.506	0.270
SURSOILER	44	8.0	4200.	3.	1000.	0.511	0.160	0.057	0.729	0.000	0.030	1.475	1.505	0.625
BED SHAPER 6ROW	50	15.0	4325.	9.	280.	0.265	0.154	0.060	0.480	0.000	0.011	0.536	0.547	0.193
CULTIVATOR 6 ROW	53	15.0	3300.	7.	390.	0.556	0.283	0.108	0.948	0.000	0.020	1.004	1.024	0.618
SADDLE TANKS	55	15.0	2900.	5.	550.	0.127	0.051	0.019	0.197	0.000	0.008	0.396	0.404	0.173
ROLLER	57	21.0	3500.	8.	350.	0.165	0.090	0.035	0.289	0.000	0.002	0.097	0.099	0.170
DISC OFFSET	60	14.0	4500.	7.	400.	0.534	0.272	0.104	0.910	0.000	0.024	1.195	1.219	0.446
LISTER 6 ROW	82	15.0	2000.	4.	755.	0.072	0.027	0.010	0.109	0.000	0.004	0.210	0.214	0.173
LANDPLANE 12X45	85	12.0	7100.	3.	940.	0.713	0.224	0.080	1.017	0.000	0.011	0.525	0.536	0.485
FURROWER 6SHOVEL	91	9.8	1500.	6.	450.	0.394	0.184	0.069	0.647	0.000	0.018	0.916	0.934	0.995
THINNER 6 ROW	103	15.0	11400.	9.	280.	0.746	0.434	0.170	1.350	0.000	0.020	0.993	1.013	0.206
PLANT-INC 6ROW	112	15.0	8650.	7.	375.	0.974	0.496	0.189	1.659	0.000	0.067	3.336	3.403	0.397
BEEY HVSTR 4ROW	118	10.0	25000.	4.	750.	2.633	0.984	0.359	3.975	0.000	0.097	4.827	4.923	0.500
FURROW IRIG SYS*	132	2.0	38250.	10.	5000.	14.554	11.545	4.330	30.430	0.000	0.052	2.588	2.640	27.000
DITCHER	138	25.0	2400.	18.	140.	0.142	0.126	0.053	0.321	0.000	0.002	0.105	0.108	0.160
TRAILER	149	5.0	2850.	9.	300.	0.329	0.206	0.079	0.615	0.000	0.002	0.110	0.112	0.407
IMPLMT CARRIER	150	5.0	3500.	9.	300.	0.121	0.076	0.029	0.227	0.000	0.001	0.041	0.041	0.122