ASH FLOW & INVESTMENT SUMMARY FOR PISTACHIO — BUDGET RECORD NUMBER 29

SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

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	4000.00	0.00	0.00	0.00	4000.00
OPERATING EXPENSES														
PRUNING	$/AC	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.50
SHAKE TREES	$/AC	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	37.50
NITROGEN	$/AC	0.00	0.00	9.38	0.00	0.00	0.00	9.38	0.00	0.00	0.00	0.00	0.00	18.75
HERBICIDE	$/AC	17.50	0.00	0.00	0.00	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	35.00
INSECTICIDE	$/AC	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00
HARVEST & HAUL	$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	185.00	0.00	0.00	0.00	185.00
HOLDING & DRYING	$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	340.00	0.00	0.00	0.00	340.00
MACHINE LABOR COST	$/AC	3.57	11.10	9.98	6.37	9.58	6.37	11.85	2.09	5.97	2.09	1.69	1.69	72.36
INTEREST ON OPER. CAP.	$/AC	12.42	1.56	2.60	1.26	1.28	0.81	1.35	0.18	0.00	1.81	0.37	0.33	23.97
TRACTOR COST	$/AC	1.31	6.59	5.53	2.99	5.53	2.99	6.84	0.00	2.99	0.00	0.00	0.00	34.77
EQUIPMENT COST	$/AC	1.60	1.91	2.88	2.35	2.88	2.35	2.98	1.50	2.35	1.50	1.50	1.50	25.27
BLDG OPER. COST	$/AC	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.69
IRRIGATION COST	$/AC	0.00	0.00	5.69	5.69	5.69	7.59	7.59	7.59	0.00	5.69	0.00	0.00	45.52
IRRIG LABOR COST	$/AC	0.00	0.00	4.90	4.90	4.90	4.90	4.90	4.90	0.00	4.90	0.00	0.00	34.30
TOTAL EXPENSES	$/AC	148.46	21.21	41.01	23.61	29.91	25.06	62.44	16.32	536.37	16.05	3.62	3.58	927.63

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

MACHINE LABOR	HR/AC	0.63	1.96	1.77	1.13	1.70	1.13	2.10	0.37	1.06	0.37	0.30	0.30	12.81
IRRIGATION LABOR	HR/AC	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	7.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	3.00	3.00	3.00	4.00	4.00	4.00	0.00	3.00	0.00	0.00	24.00

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE DEPR.	INTER.	TAX &INS	TOTAL	VARIABLE COST PER ACRE FUEL	LUBE	REPAIRS	TOTAL	HRS PER ACRE
TRACTOR 65 HP	4	65.0	15960.	10.	470.	19.10	24.59	6.10	49.79	23.92	3.59	7.26	34.77	7.985
PICKUP 1/2 TON	14	0.5	9000.	6.	480.	6.67	5.07	1.27	13.01	14.40	2.16	1.41	17.97	3.000
3 WH. VEHICLE	16	50.0	1300.	10.	3000.	0.02	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.354
IRR PUMP 50 HP*	22	2.0	10560.	25.	3200.	2.90	6.01	1.78	10.69	4.88	0.07	1.84	6.79	24.000
DRIP IRRIG SYST*	56	1.0	78900.	10.	5000.	26.69	34.34	8.52	69.55	0.00	0.76	37.96	38.72	24.000
DISC-OFFSET	78	8.0	3960.	10.	160.	7.64	7.65	2.09	17.37	0.00	0.10	4.98	5.08	3.750
WD SPRYR 200 GAL	88	15.0	2040.	10.	95.	0.97	0.97	0.26	2.20	0.00	0.00	0.21	0.21	0.547
SPRINGTOOTH	100	8.0	3120.	10.	125.	3.26	3.26	0.89	7.41	0.00	0.03	1.56	1.59	1.587
BRUSH RAKE	128	6.0	1200.	8.	320.	0.50	0.44	0.12	1.06	0.00	0.01	0.40	0.41	1.375
MISCL ORCH EQUIP	55		500.	8.		0.35	0.19	0.03	0.57	0.00		0.00	0.00	
FARM SHOP	2		10530.	35.		1.69	3.98	0.66	6.33	0.66		0.03	0.69	
MACHINERY & EQUIPMENT			857.			69.79	86.51	21.72	178.02	43.85	6.72	55.67	106.24	

INVESTMENT & COSTS PER ACRE
TOTAL INVESTMENT 137070.

BASED ON 40 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81

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STORED DATA PAGE (NO CALCULATIONS) FOR PISTACHIO BUDGET RECORD NUMBER 29

SAMPLE COSTS TO PRODUCE PISTACHIOS BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS MARK FREEMAN

COSTS AND RETURNS WILL BE DIVIDED BY 2000.0 LBS. TO OBTAIN PER LBS. COSTS

LINE		1 JAN	2 FEB	3 MAR	4 APR	5 MAY	6 JUN	7 JUL	8 AUG	9 SEP	10 OCT	11 NOV	12 DEC	13 PRICE	14 SHARE RENT	15 UNIT CODE	16 ITEM CODE	17 TYPE	18 XXXX
PRODUCTION						NUMBER OF UNITS													
1	PISTACHIO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00******	0.00	0.00	0.00	2.000	0.000	12.	58.	2.	0.	
OPERATING INPUTS						RATE/UNIT								PRICE	SHARE RENT	UNIT CODE	ITEM CODE	TYPE	HARV CODE
6	PRUNING	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.350	0.000	24.	340.	3.	0.
7	SHAKE TREES	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.250	0.000	24.	344.	3.	0.
8	NITROGEN	0.00	0.00	37.50	0.00	0.00	0.00	37.50	0.00	0.00	0.00	0.00	0.00	0.250	0.000	12.	211.	3.	0.
9	HERBICIDE	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	35.000	0.000	7.	250.	3.	0.
10	INSECTICIDE	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.000	0.000	7.	240.	3.	0.
11	HARVEST & HAUL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	185.000	0.000	3.	306.	3.	9.
12	HOLDING & DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	340.000	0.000	3.	312.	3.	9.
MACHINERY REQUIREMENTS		IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE													# CREW LABOR	POWER UNIT	MACH CODE	TYPE	HARV CODE
27	DISC-OFFSET	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	78.	4.	0.
28	BRUSH RAKE	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	4.	128.	4.	0.
30	WD SPRYR 200 GAL	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	88.	4.	0.
[illegible]	SPRINGTOOTH	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	100.	4.	0.
[illegible]	PICKUP 1/2 TON	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.000	0.000	0.	14.	4.	0.
34	3 WH. VEHICLE	0.00	0.00	5.00	5.00	0.00	5.00	5.00	5.00	0.00	5.00	0.00	0.00	0.000	0.000	0.	16.	4.	0.
															SHARE FIXED %	SHARE VAR %	POWER UNIT	SYSM CODE	LIFT
49	ACIN IRRIG WATER	0.00	0.00	3.00	3.00	3.00	4.00	4.00	4.00	0.00	3.00	0.00	0.00		0.00	0.00	22.	56.	0.
50	NO. TIMES IRRIG	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00						

EQUIPMENT REQUIREMENTS		NUMBER UNITS	PROPORT OF COST	XXX	EQUIP CODE	TYPE	XXXX
51	MISCL ORCH EQUIP	1.000	0.250	0.	55.	5.	0.
52	FARM SHOP	1.000	0.250	0.	2.	5.	0.

COLUMNS --->	2	3	4	5	6	7	8
LAND REQUIREMENTS	CHARGE METHOD		NUMBER OF ACRES	VALUE OR COST/ACRE	TAXES PER ACRE	PERENNIAL CROPS YRS LIFE	COST/ACRE
71	1.		160.00	5000.00	0.00	50.0	9800.00

ENTERPRISE 2-58 REGION/COUNTY 54 UNASSIGNED 00000 MACH COMP 8 IRIG SYST 5 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 9

BASED ON 40 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT MACHINERY COMPLEMENT 8
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81 EQUIPMENT COMPLEMENT 1

	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE
GENERAL NAME CHANGE-->	312	HOLDING & DRYING	344	SHAKE TREES	306	HARVEST & HAUL				
MACHNRY NAME CHANGE-->	4	TRACTOR 65 HP	16	3 WH. VEHICLE						
EQUIP NAME CHANGE--->	22	NURSE TANK	25	NURSE TANK						

	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE
MACH COMP CHGS-->	4.	2.	65.000000	4.	16.	65.000000	78.	2.	8.000000	32.	3.	50000.000000	32.	13.	50000.000000	16.	2.	50.000000
	16.	3.	1300.000000	16.	4.	20.000000	16.	5.	0.700000	16.	9.	3000.000000	16.	10.	10.000000	16.	13.	1300.000000
	16.	14.	1.000000	16.	15.	5000.000000	16.	16.	50.000000									
EQDAT COMP CHGS-->	55.	5.	2000.000000	55.	6.	2000.000000	22.	5.	1500.000000	22.	6.	1500.000000	25.	5.	1500.000000	25.	6.	1500.000000
PARAMETER CHGS-->	6.		0.140000	10.		5.650000	11.		4.900000	12.		4.900000	26.		0.110000			

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1980 default data

RANGING ANALYSIS FOR BUDGET RECORD NUMBER 29
SAMPLE COSTS TO PRODUCE PISTACHIOS
SOUTHERN SAN JOAQUIN VALLEY 1980
YIELD: 2000 LBS. IN SHELL NUTS

BY JOSEPH MARANTO
STEVE SIBBET
MARK FREEMAN

INCOME ABOVE VARIABLE COSTS
WHEN THE PRICE OF PISTACHIO RANGES FROM 1.80 TO 2.20
AND THE QUANTITY OF PISTACHIO RANGES FROM 1600.00 TO 2400.00

QUANTITY OF PISTACHIO	PRICE OF PISTACHIO 1.80	1.90	2.00	2.10	2.20
1600.00	1952.37	2112.37	2272.37	2432.37	2592.37
1800.00	2312.37	2492.37	2672.37	2852.37	3032.37
2000.00	2672.37	2872.37	3072.37	3272.37	3472.37
2200.00	3032.37	3252.37	3472.37	3692.37	3912.37
2400.00	3392.37	3632.37	3872.37	4112.37	4352.37

INCOME ABOVE ALL CASH COSTS
WHEN THE PRICE OF PISTACHIO RANGES FROM 1.80 TO 2.20
AND THE QUANTITY OF PISTACHIO RANGES FROM 1600.00 TO 2400.00

QUANTITY OF PISTACHIO	PRICE OF PISTACHIO 1.80	1.90	2.00	2.10	2.20
1600.00	1782.65	1942.65	2102.65	2262.65	2422.65
1800.00	2142.65	2322.65	2502.65	2682.65	2862.65
2000.00	2502.65	2702.65	2902.65	3102.65	3302.65
2200.00	2862.65	3082.65	3302.65	3522.65	3742.65
2400.00	3222.65	3462.65	3702.65	3942.65	4182.65

INCOME ABOVE ALL COSTS
WHEN THE PRICE OF PISTACHIO RANGES FROM 1.80 TO 2.20
AND THE QUANTITY OF PISTACHIO RANGES FROM 1600.00 TO 2400.00

QUANTITY OF PISTACHIO	PRICE OF PISTACHIO 1.80	1.90	2.00	2.10	2.20
1600.00	341.35	501.35	661.35	821.35	981.35
1800.00	701.35	881.35	1061.35	1241.35	1421.35
2000.00	1061.35	1261.35	1461.35	1661.35	1861.35
2200.00	1421.35	1641.35	1861.35	2081.35	2301.35
2400.00	1781.35	2021.35	2261.35	2501.35	2741.35

BASED ON 40 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81

MACHINERY OPERATIONS SUMMARY — BUDGET RECORD NUMBER 29
SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

OPERATION	ITEM NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
PICKUP 1/2 TON	14	OCT	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	OCT	5.00	0.071	0.059	0.00	0.00
PICKUP 1/2 TON	14	NOV	5.00	0.300	0.250	1.50	1.08
PICKUP 1/2 TON	14	DEC	5.00	0.300	0.250	1.50	1.08
WD SPRYR 200 GAL	4, 88	JAN	1.00	0.331	0.274	1.42	2.98
PICKUP 1/2 TON	14	JAN	5.00	0.300	0.250	1.50	1.08
BRUSH RAKE	4,128	FEB	1.00	1.664	1.375	7.00	10.49
PICKUP 1/2 TON	14	FEB	5.00	0.300	0.250	1.50	1.08
DISC-OFFSET	4, 78	MAR	1.00	0.756	0.625	3.84	7.18
SPRINGTOOTH	4,100	MAR	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	MAR	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	MAR	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	APR	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	APR	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	APR	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	MAY	1.00	0.756	0.625	3.84	7.18
SPRINGTOOTH	4,100	MAY	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	MAY	5.00	0.300	0.250	1.50	1.08
DISC-OFFSET	4, 78	JUNE	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	JUNE	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	JUNE	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	JULY	1.00	0.756	0.625	3.84	7.18
WD SPRYR 200 GAL	4, 88	JULY	1.00	0.331	0.274	1.42	2.98
SPRINGTOOTH	4,100	JULY	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	JULY	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	JULY	5.00	0.071	0.059	0.00	0.00
PICKUP 1/2 TON	14	AUG	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	AUG	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	SEPT	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	SEPT	5.00	0.300	0.250	1.50	1.08
TOTALS				12.807	10.612	60.04	90.88

BASED ON 40 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
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FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 29

SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

FUEL USED IN GALLONS PER HOUR

TRACTOR 65 HP	3.120
PICKUP 1/2 TON	4.000
3 WH. VEHICLE	0.000
IRR PUMP 50 HP*	0.000 (KWHRS)

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.200	
3 WH. VEHICLE	0.000	
DISC-OFFSET	2.145	TRACTOR 65 HP
BRUSH RAKE	4.719	TRACTOR 65 HP
WD SPRYR 200 GAL	0.939	TRACTOR 65 HP
SPRINGTOOTH	1.815	TRACTOR 65 HP
DRIP IRRIG SYST*	0.000 (KWHRS)	IRR PUMP 50 HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYPE
DISC-OFFSET	0.000	0.000	2.145	2.145	2.145	2.145	2.145	0.000	2.145	0.000	0.000	0.000	12.870	DIESEL
BRUSH RAKE	0.000	4.719	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.719	DIESEL
WD SPRYR 200 GAL	0.939	0.000	0.000	0.000	0.000	0.000	0.939	0.000	0.000	0.000	0.000	0.000	1.878	DIESEL
SPRINGTOOTH	0.000	0.000	1.815	0.000	1.815	0.000	1.815	0.000	0.000	0.000	0.000	0.000	5.445	DIESEL
PICKUP 1/2 TON	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	12.000	GAS
3 WH. VEHICLE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	GAS
DRIP IRRIG SYST*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	KWH
TOTALS	1.939	5.719	4.960	3.145	4.960	3.145	5.899	1.000	3.145	1.000	1.000	1.000	36.912	

GALLONS FUEL BY TYPE
12.00 GAS
0.00 LP
24.91 DIESEL
0.00 N. GAS
0.00 KWHRS

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

BASED ON 40 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81

Pistachios #30

COST & RETURNS SUMMARY FOR PISTACHIO

SAMPLE COSTS TO PRODUCE PISTACHIOS
SOUTHERN SAN JOAQUIN VALLEY 1980
YIELD: 2000 LBS. IN SHELL NUTS

BY JOSEPH MARANTO
STEVE SIBBET
MARK FREEMAN

	UNIT	PRICE OR COST/UNIT	QUANTITY	VALUE OR COST PER ACRE	YOUR COST
1. GROSS RECEIPTS FROM PRODUCTION:					
PISTACHIO	LBS.	2.000	2000.000	4000.00	
TOTAL RECEIPTS:				4000.00	
2. VARIABLE COSTS:					
PREHARVEST:					
PRUNING	TREE	0.350	150.000	52.50	
NITROGEN	LBS.	0.250	75.000	18.75	
HERBICIDE	ACRE	35.000	1.000	35.00	
INSECTICIDE	ACRE	22.000	1.000	22.00	
TRACTOR (FUEL-LUBE-REPAIRS)	ACRE			36.23	
EQUIPMENT (FUEL-LUBE-REPAIRS)	ACRE			91.83	
BUILDINGS (FUEL-LUBE-REPAIRS)	ACRE			0.70	
IRRIGATION (POWER-LUBE-REP)	ACIN	1.897	24.000	45.52	
MACHINERY LABOR	HOUR	5.650	17.977	101.57	
IRRIGATION LABOR	HOUR	4.900	7.000	34.30	
INTEREST ON OPERATING CAP.	DOL.	0.14000	182.106	24.81	
TOTAL PREHARVEST COSTS:				463.20	
PREHARVEST COST PER LBS.				0.2316	
HARVEST:					
CUSTOM HAULING	TON	10.000	1.000	10.00	
HOLDING & DRYING	TON	340.000	1.000	340.00	
TOTAL HARVEST COSTS:				350.00	
HARVEST COST PER LBS.				0.1250	
TOTAL VARIABLE COSTS:				813.20	
VARIABLE COST PER LBS.				0.4066	
3. INCOME ABOVE VARIABLE COSTS:				3186.80	
INCOME PER LBS.				1.5934	
4. OVERHEAD:					
PERSONAL PROPERTY TAXES:				25.02	
REAL PROPERTY TAXES:				149.06	
TOTAL OVERHEAD:				174.08	
OVERHEAD COST PER LBS.				0.0870	
TOTAL CASH COSTS:				987.28	
TOTAL CASH COST PER LBS.				0.4936	
5. INCOME ABOVE ALL CASH COSTS:				3012.72	
INCOME PER LBS.				1.5064	
6. OWNERSHIP COSTS:					
DEPRECIATION:					
MACHINERY & EQUIPMENT	ACRE			113.21	
IRRIGATION SYSTEM	ACRE			29.59	
BUILDINGS	ACRE			2.64	
TREES, VINES OR STAND	ACRE			196.00	
TOTAL DEPRECIATION:				341.43	
CAPITAL & INTEREST:					
MACHINERY&EQUIPMENT		0.14000	701.040	98.15	
IRRIGATION SYSTEM		0.14000	288.243	40.35	
BUILDINGS		0.11000	42.134	4.63	
TREES, VINES OR STAND		0.11000	9800.000	539.00	
LAND		0.11000	4000.000	440.00	
TOTAL INTEREST CHARGE:				1122.13	
TOTAL FIXED COSTS:				1463.57	
FIXED COST PER LBS.				0.7318	
7. TOTAL OF ABOVE COSTS:				2450.85	
TOTAL COST PER LBS.				1.2254	
8. NET RETURNS:				1549.15	
NET RETURNS PER LBS.				0.7746	

BASED ON 160 ACRE OF 640 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81 HARVEST MONTH: 9 BUDGET RECORD NUMBER 30

UC Cooperative Extension

1980 default data

CASH FLOW & INVESTMENT SUMMARY FOR PISTACHIO — BUDGET RECORD NUMBER 30

SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

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	4000.00	0.00	0.00	0.00	4000.00
OPERATING EXPENSES														
PRUNING	$/AC	52.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	52.50
NITROGEN	$/AC	0.00	0.00	9.38	0.00	0.00	0.00	9.38	0.00	0.00	0.00	0.00	0.00	18.75
HERBICIDE	$/AC	17.50	0.00	0.00	0.00	0.00	0.00	17.50	0.00	0.00	0.00	0.00	0.00	35.00
INSECTICIDE	$/AC	22.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.00
CUSTOM HAULING	$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	0.00	10.00
HOLDING & DRYING	$/AC	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	340.00	0.00	0.00	0.00	340.00
MACHINE LABOR COST	$/AC	17.13	11.10	9.98	6.37	9.58	6.37	11.85	4.18	19.53	2.09	1.69	1.69	101.57
INTEREST ON OPER. CAP.	$/AC	13.20	1.56	2.60	1.26	1.28	0.81	1.35	0.24	0.00	1.81	0.37	0.33	24.81
TRACTOR COST	$/AC	1.31	6.59	5.53	2.99	5.53	2.99	6.84	1.46	2.99	0.00	0.00	0.00	36.23
EQUIPMENT COST	$/AC	34.04	1.91	2.88	2.35	2.88	2.35	2.98	3.17	34.79	1.50	1.50	1.50	91.83
BLDG OPER. COST	$/AC	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.70
IRRIGATION COST	$/AC	0.00	0.00	5.69	5.69	5.69	7.59	7.59	7.59	0.00	5.69	0.00	0.00	45.52
IRRIG LABOR COST	$/AC	0.00	0.00	4.90	4.90	4.90	4.90	4.90	4.90	0.00	4.90	0.00	0.00	34.30
TOTAL EXPENSES	$/AC	157.73	21.21	41.01	23.61	29.91	25.06	62.44	21.60	407.37	16.05	3.62	3.58	813.20

MONTHLY IRRIGATION AND LABOR REQUIREMENTS

MACHINE LABOR	HR/AC	3.03	1.96	1.77	1.13	1.70	1.13	2.10	0.74	3.46	0.37	0.30	0.30	17.98
IRRIGATION LABOR	HR/AC	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	7.00
IRRIG. WATER APPLIED	ACIN	0.00	0.00	3.00	3.00	3.00	4.00	4.00	4.00	0.00	3.00	0.00	0.00	24

MACHINERY FIXED AND VARIABLE COSTS PER ACRE

MACHINE	CODE	SIZE	PURCHASE PRICE	YEARS OWNED	ANN HOURS USED	FIXED COST PER ACRE DEPR.	INTER.	TAX &INS	TOTAL	VARIABLE COST PER ACRE FUEL	LUBE	REPAIRS	TOTAL	HRS PER ACRE
TRACTOR 65 HP	4	65.0	15960.	10.	470.	19.91	25.62	6.36	51.89	24.92	3.74	7.57	36.23	8.321
PICKUP 1/2 TON	14	0.5	9000.	6.	480.	6.67	5.07	1.27	13.01	14.40	2.16	1.41	17.97	3.000
3 WH. VEHICLE	16	50.0	1300.	10.	3000.	0.02	0.01	0.00	0.03	0.00	0.00	0.00	0.00	0.354
IRR PUMP 50 HP*	22	2.0	10560.	25.	3200.	2.90	6.01	1.78	10.69	4.88	0.07	1.84	6.79	24.000
KNOCKER&C-FRAME*	32	0.5	50000.	6.	345.	70.62	51.50	13.04	135.16	3.74	0.56	60.58	64.88	4.000
DRIP IRRIG SYST*	56	1.0	78900.	10.	5000.	26.69	34.34	8.52	69.55	0.00	0.76	37.96	38.72	24.000
DISC-OFFSET	78	8.0	3960.	10.	160.	7.64	7.65	2.09	17.37	0.00	0.10	4.98	5.08	3.750
10 SPRYR 200 GAL	88	15.0	2040.	10.	95.	0.97	0.97	0.26	2.20	0.00	0.00	0.21	0.21	0.547
SPD SPRYR 500 GA	91	15.0	18000.	10.	125.	3.62	3.62	0.99	8.24	0.00	0.03	1.64	1.67	0.306
SPRINGTOOTH	100	8.0	3120.	10.	125.	3.26	3.26	0.89	7.41	0.00	0.03	1.56	1.59	1.587
BRUSH RAKE	128	6.0	1200.	8.	320.	0.50	0.44	0.12	1.06	0.00	0.01	0.40	0.41	1.375
MISCL ORCH EQUIP	55		1250.	8.		0.88	0.47	0.08	1.43	0.00		0.01	0.01	
FARM SHOP	2		10530.	35.		1.69	3.98	0.66	6.33	0.66		0.03	0.69	
NURSE TANK	25		375.	20.		0.07	0.18	0.02	0.27	0.00		0.00	0.00	
MACHINERY & EQUIPMENT INVESTMENT & COSTS PER ACRE			1289.			145.43	143.13	36.08	324.65	48.60	7.47	118.20	174.27	
TOTAL INVESTMENT			206195.											

BASED ON 160 ACRE OF 640 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81

UC Cooperative Extension

MACHINERY OPERATIONS SUMMARY — BUDGET RECORD NUMBER 30

SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

OPERATION	ITER NO.	DATE	TIMES OVER	LABOR HOURS	MACHINE HOURS	FUEL,OIL, LUB.,REP. PER ACRE	FIXED COSTS PER ACRE
PICKUP 1/2 TON	14	OCT	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	OCT	5.00	0.071	0.059	0.00	0.00
PICKUP 1/2 TON	14	NOV	5.00	0.300	0.250	1.50	1.08
PICKUP 1/2 TON	14	DEC	5.00	0.300	0.250	1.50	1.08
KNOCKER&C-FRAME*	32	JAN	1.00	0.000	2.000	32.44	67.58
WD SPRYR 200 GAL	4, 88	JAN	1.00	0.331	0.274	1.42	2.98
PICKUP 1/2 TON	14	JAN	5.00	0.300	0.250	1.50	1.08
BRUSH RAKE	4,128	FEB	1.00	1.664	1.375	7.00	10.49
PICKUP 1/2 TON	14	FEB	5.00	0.300	0.250	1.50	1.08
DISC-OFFSET	4, 78	MAR	1.00	0.756	0.625	3.84	7.18
SPRINGTOOTH	4,100	MAR	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	MAR	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	MAR	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	APR	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	APR	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	APR	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	MAY	1.00	0.756	0.625	3.84	7.18
SPRINGTOOTH	4,100	MAY	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	MAY	5.00	0.300	0.250	1.50	1.08
DISC-OFFSET	4, 78	JUNE	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	JUNE	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	JUNE	5.00	0.071	0.059	0.00	0.00
DISC-OFFSET	4, 78	JULY	1.00	0.756	0.625	3.84	7.18
WD SPRYR 200 GAL	4, 88	JULY	1.00	0.331	0.274	1.42	2.98
SPRINGTOOTH	4,100	JULY	1.00	0.640	0.529	3.06	6.10
PICKUP 1/2 TON	14	JULY	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	JULY	5.00	0.071	0.059	0.00	0.00
SPD SPRYR 500 GA	4, 91	AUG	1.00	0.370	0.306	3.14	10.33
PICKUP 1/2 TON	14	AUG	5.00	0.300	0.250	1.50	1.08
3 WH. VEHICLE	16	AUG	5.00	0.071	0.059	0.00	0.00
KNOCKER&C-FRAME*	32	SEPT	1.00	0.000	2.000	32.44	67.58
DISC-OFFSET	4, 78	SEPT	1.00	0.756	0.625	3.84	7.18
PICKUP 1/2 TON	14	SEPT	5.00	0.300	0.250	1.50	1.08
TOTALS				13.177	14.918	*****	236.37

BASED ON 160 ACRE OF 640 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
DATE PRINTED: 02/13/81

UC Cooperative Extension

FUEL USE SUMMARY FOR BUDGET RECORD NUMBER 30

SAMPLE COSTS TO PRODUCE PISTACHIOS — BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 — STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS — MARK FREEMAN

FUEL USED IN GALLONS PER HOUR

TRACTOR 65 HP	3.120	
PICKUP 1/2 TON	4.000	
3 WH. VEHICLE	0.000	
IRR PUMP 50 HP*	0.000	(KWHRS)
KNOCKER&C-FRAME*	0.780	

FUEL ALLOCATED TO OPERATIONS IN GALLONS PER ACRE COVERED

MACHINE	GALLONS	POWER UNIT
PICKUP 1/2 TON	0.200	
3 WH. VEHICLE	0.000	
KNOCKER&C-FRAME*	1.560	
DISC-OFFSET	2.145	TRACTOR 65 HP
BRUSH RAKE	4.719	TRACTOR 65 HP
SPD SPRYR 500 GA	1.049	TRACTOR 65 HP
WD SPRYR 200 GAL	0.939	TRACTOR 65 HP
SPRINGTOOTH	1.815	TRACTOR 65 HP
DRIP IRRIG SYST*	0.000 (KWHRS)	IRR PUMP 50 HP*

FUEL ALLOCATED TO OPERATIONS FOR THE BUDGET UNIT

	1	2	3	4	5	6	7	8	9	10	11	12	TOTAL	FUEL TYP
CKER&C-FRAME*	1.560	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.560	0.000	0.000	0.000	3.120	GAS
C-OFFSET	0.000	0.000	2.145	2.145	2.145	2.145	2.145	0.000	2.145	0.000	0.000	0.000	12.870	DIESEL
SH RAKE	0.000	4.719	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	4.719	DIESEL
SPRYR 500 GA	0.000	0.000	0.000	0.000	0.000	0.000	0.000	1.049	0.000	0.000	0.000	0.000	1.049	DIESEL
SPRYR 200 GAL	0.939	0.000	0.000	0.000	0.000	0.000	0.939	0.000	0.000	0.000	0.000	0.000	1.878	DIESEL
INGTOOTH	0.000	0.000	1.815	0.000	1.815	0.000	1.815	0.000	0.000	0.000	0.000	0.000	5.445	DIESEL
KUP 1/2 TON	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	1.000	12.000	GAS
H. VEHICLE	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	GAS
P IRRIG SYST*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	KWH
TOTALS	3.499	5.719	4.960	3.145	4.960	3.145	5.899	2.049	4.705	1.000	1.000	1.000	41.081	

.ONS FUEL BY TYPE
5.12 GAS
1.00 LP
5.96 DIESEL
.00 N. GAS
1.00 KWHRS

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

D ON 160 ACRE OF 640 ACRE ORCHARD
RIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT
IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81
PRINTED: 02/13/81

UC Cooperative Extension

VERSION #29.3.8. 2/13/81 9:19:04 HOURS

STORED DATA PAGE (NO CALCULATIONS) FOR PISTACHIO BUDGET RECORD NUMBER 30

SAMPLE COSTS TO PRODUCE PISTACHIOS BY JOSEPH MARANTO
SOUTHERN SAN JOAQUIN VALLEY 1980 STEVE SIBBET
YIELD: 2000 LBS. IN SHELL NUTS MARK FREEMAN

COSTS AND RETURNS WILL BE DIVIDED BY 2000.0 LBS. TO OBTAIN PER LBS. COSTS

LINE		1 JAN	2 FEB	3 MAR	4 APR	5 MAY	6 JUN	7 JUL	8 AUG	9 SEP	10 OCT	11 NOV	12 DEC	13 PRICE	14 SHARE RENT	15 UNIT CODE	16 ITEM CODE	17 TYPE	18 XXXX
PRODUCTION						NUMBER OF UNITS													
1	PISTACHIO	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00******	0.00	0.00	0.00	2.000	0.000	12.	58.	2.	0.	
OPERATING INPUTS						RATE/UNIT								PRICE	SHARE RENT	UNIT CODE	ITEM CODE	TYPE	HARV CODE
6	PRUNING	150.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.350	0.000	24.	340.	3.	0.
8	NITROGEN	0.00	0.00	37.50	0.00	0.00	0.00	37.50	0.00	0.00	0.00	0.00	0.00	0.250	0.000	12.	211.	3.	0.
9	HERBICIDE	0.50	0.00	0.00	0.00	0.00	0.00	0.50	0.00	0.00	0.00	0.00	0.00	35.000	0.000	7.	250.	3.	0.
10	INSECTICIDE	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	22.000	0.000	7.	240.	3.	0.
11	CUSTOM HAULING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	10.000	0.000	3.	306.	3.	9.
12	HOLDING & DRYING	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	340.000	0.000	3.	312.	3.	9.
MACHINERY REQUIREMENTS		IMPLEMENTS = TIMES OVER, TRUCKS = # MILES/ACRE, TRACTORS = HRS/ACRE													# CREW LABOR	POWER UNIT	MACH CODE	TYPE	HARV CODE
26	KNOCKER&C-FRAME*	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	0.	32.	4.	0.
27	DISC-OFFSET	0.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00	0.00	0.000	0.000	4.	78.	4.	0.
28	BRUSH RAKE	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	4.	128.	4.	0.
29	SPD SPRYR 500 GA	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	91.	4.	0.
30	WD SPRYR 200 GAL	1.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	88.	4.	0.
32	SPRINGTOOTH	0.00	0.00	1.00	0.00	1.00	0.00	1.00	0.00	0.00	0.00	0.00	0.00	0.000	0.000	4.	100.	4.	0.
33	[illegible]UP 1/2 TON	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	5.00	0.000	0.000	0.	14.	4.	0.
34	[illegible]. VEHICLE	0.00	0.00	5.00	5.00	0.00	5.00	5.00	5.00	0.00	5.00	0.00	0.00	0.000	0.000	0.	16.	4.	0.
															SHARE FIXED %	SHARE VAR %	POWER UNIT	SYSM CODE	LIFT
49	ACIN IRRIG WATER	0.00	0.00	3.00	3.00	3.00	4.00	4.00	4.00	0.00	3.00	0.00	0.00		0.00	0.00	22.	56.	0.
50	NO. TIMES IRRIG	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	0.00	0.00						

EQUIPMENT REQUIREMENTS		NUMBER UNITS	PROPORT OF COST	XXX	EQUIP CODE	TYPE	XXXX
51	MISCL ORCH EQUIP	1.000	0.250	0.	55.	5.	0.
52	FARM SHOP	1.000	0.250	0.	2.	5.	0.
53	NURSE TANK	1.000	0.250	0.	25.	5.	0.

COLUMNS --->		2	3	4	5	6	7	8
LAND REQUIREMENTS		CHARGE METHOD		NUMBER OF ACRES	VALUE OR COST/ACRE	TAXES PER ACRE	PERENNIAL CROPS YRS LIFE	COST/ACRE
71		1.		160.00	4000.00	0.00	50.0	9800.00

ENTERPRISE 2-58 REGION/COUNTY 54 UNASSIGNED 00000 MACH CORP 8 IRIG SYST 5 UNASSIGNED 0 EQUIP SET 1 HARVEST MONTH 9

BASED ON 160 ACRE OF 640 ACRE ORCHARD
SOLARIZATION COST OF UP TO $800/ACRE TO CONTROL VERTICILIUM WILT MACHINERY COMPLEMENT 8
DRIP IRRIGATION 11X22 PLANTING 150 TREES PER ACRE UPDATED 02/13/81 EQUIPMENT COMPLEMENT 1

	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE	LINE	CHANGE
GENERAL NAME CHANGE->	312	HOLDING & DRYING								
MACHNRY NAME CHANGE->	4	TRACTOR 65 HP	16	3 WH. VEHICLE						
EQUIP NAME CHANGE-->	22	NURSE TANK	25	NURSE TANK						

	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE	RW	CL	VALUE
MACH COMP CHGS-->	4.	2.	65.000000	4.	16.	65.000000	78.	2.	8.000000	32.	3.	50000.000000	32.	13.	50000.000000	16.	2.	50.000000
	16.	3.	1300.000000	16.	4.	20.000000	16.	5.	0.700000	16.	9.	3000.000000	16.	10.	10.000000	16.	13.	1300.000000
	16.	14.	1.000000	16.	15.	5000.000000	16.	16.	50.000000									
EQDAT COMP CHGS-->	55.	5.	5000.000000	55.	6.	5000.000000	22.	5.	1500.000000	22.	6.	1500.000000	25.	5.	1500.000000	25.	6.	1500.000000
PARAMETER CHGS-->	4.		0.140000	10.		5.650000	11.		4.900000	12.		4.900000	26.		0.110000			

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1980 default data

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