

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... ESTANCIA BASIN, TORRANCE AND SANTA FE COUN Projected 2001
FARM SIZE..... 160.00 ACRES
IRRIGATION TYPE..... FLOOD
NUMBER OF CROPS..... 3

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TABLE 1. Acreage Summary, Torrance and Santa Fe Counties, Projected 2006.

BUDGET AREA.....	ESTANCIA BASIN, TORRANCE AND SANTA FE COUNTIES		
FARM SIZE.....	160 ACRES		
IRRIGATION TYPE.....	FLOOD		
NUMBER OF CROPS....	3		
	WATER USE		
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	8.00 *	6	48
ALFALFA	40.00	42	1,680
CORN FOR GRAIN	51.00	36	1,836
ARP	0.00		
FLEX IN PINTO BEANS	9.00	36	324
PINTO BEANS	50.00	18	900
IDLE, ROADS, HOMESTEAD	10.00		
	TOTAL		4,788
	ACRE FEET PER ACRE OF WATER RIGHTS		2.49

* DOUBLE-CROPPED

TABLE 2. Basic cost information for the Estancia Basin, Projected 2006.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$6.65
General & Irrigators		\$/hour	\$6.35
Purchased Inputs:			
Fertilizer:			
Anhydrous Ammonia (NH3)		\$/ton	\$525.00
Nitrogen (N)		\$/pound	\$0.52
Phosphate (P205)		\$/pound	\$0.40
Seed:			
Alfalfa		\$/pound	\$3.20
Corn		\$/bag	\$100.00
Pinto Beans		\$/pound	\$0.65
Natural gas			
(service charge)		\$/MCF	\$3.29
		\$/month	\$10.00
Diesel fuel		\$/gallon	\$2.10
Gasoline		\$/gallon	\$2.00
Electricity		cents/KwHr	7.75
LP Gas		\$/Gal	\$2.00
Employee Liability Insurance		\$/ \$1,000 wages	\$12.00
Employee Benefits		percent/wages	12.00%
Labor Downtime		percent	25.00%
Financial Rates:			
Operating Capital Interest Rate		percent	8.00%
Land Interest Rate		percent	8.00%
Equipment Interest Rate		percent	8.00%
Real Interest Rate		percent	3.00%
Land Taxes		\$100.00 /acre (full value)	\$0.84
Personal Property Tax Rate	- NR	\$/ \$1,000 (Assessed Value)	\$25.28
	- R		\$25.21
Supervision Factors			
Field Crop-Irrigation		\$/labor hour	\$1.00
Field Crop-Equipment & General		\$/labor hour	\$0.50
Management Rate		percent	4.00%

TABLE 3. Overhead cost information for the Estancia Basin, Projected 2006.

Item			
Electricity (Domestic & Shop)		\$111.30 per month	\$1,336
Telephone		\$79.50 per month	\$954
Accounting & Legal			\$472
Misc. Supplies & Hand Tools			\$784
Pickup and Auto			
miles	10,918	@ \$0.415 per mile	\$4,531
Insurance			
- general liability (non-employee)			\$1,018
- fire/theft			\$673
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$509
Dues, fees, publications			\$260
Farmstead Equipment			\$159
		Total	\$16,705
		Total Per Planted Acre	\$111.37

TABLE 4. Pumping costs and date for irrigation wells, Colonia Basin, Pinar del Rio

INPUT DATA	
DEPTH CHARACTERISTICS	
TO TOTAL HEAD	175
DOWN	25
TOTAL HEAD	200
CASING	200
CALCULATIONS PER MINUTE (GPM)	
WELL	60
EFFICIENCY FACTOR	
ELECTRICITY	0.940
NATURAL GAS	0.154
DIESEL	0.160
FUEL COST PER HOUR	
ELECTRICITY	\$7.35 CENTS/KWH
NATURAL GAS	\$2.25
LP GAS	\$2.00
DIESEL	\$6.92
LUMBER COSTS	
ELECTRIC WELL	\$2.74
COST PER ACRE INCH	\$2.48
NATURAL GAS WELL	\$1.54
COST PER ACRE INCH	\$1.39
LP GAS WELL	\$1.11
COST PER ACRE INCH	\$0.98
DIESEL WELL	\$3.08
COST PER ACRE INCH	\$2.74

TABLE 5. Equipment summary for a 100 acre field irrigated, and time from, Colonia Basin, Pinar del Rio

EQUIPMENT	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS				FIXED COSTS		TOTAL PER ACRE	
			FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL, LUBRIC PER HR	REPAIR PER HR	DEPRECIATION	TAXES		
TRACTOR	60 HP	110	\$5,144	\$1,065	\$42	\$372	\$128	\$539	\$91	\$5.75
TRACTOR	80 HP	141	\$8,267	\$1,620	\$52	\$379	\$227	\$155	\$206	\$8.26
TRACTOR	1 TON	26	\$20,000	\$4,000	\$140	\$10.15	\$5.00	\$2,877	\$193	\$11.19
TRACTOR	36	\$16,000	\$3,200	\$112	\$24.83	\$7.73	\$2,161	\$264	\$83.27	
CORN HEAD	18	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
CORN HEAD	18	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
BEAN HEAD	20	\$800	\$160	\$6	\$3.20	\$0.17	\$167	\$7	\$13.84	
BEAN HEAD	14 FT	19	\$2,700	\$540	\$19	\$14.49	\$7.00	\$1,700	\$53	\$33.33
BEAN HEAD	2 WHEEL	14	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89
BEAN HEAD	4 ROW	14	\$700	\$140	\$5	\$2.87	\$0.15	\$75	\$5	\$5.74
BEAN HEAD	20	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
CHISEL, 12 FT	12	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
CHISEL, 14 FT	14	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
CHISEL, 16 FT	16	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
CHISEL, 18 FT	18	\$1,200	\$240	\$8	\$5.34	\$0.21	\$282	\$18	\$10.89	
DISC	2	\$2,000	\$400	\$14	\$10.67	\$0.35	\$512	\$32	\$27.30	
DISC	2	\$2,000	\$400	\$14	\$10.67	\$0.35	\$512	\$32	\$27.30	
LETTER	4 ROW	21	\$1,800	\$360	\$12	\$6.43	\$0.33	\$313	\$13	\$10.89
FERT SPREADER	DEALER FURNISHED	1	\$1,800	\$360	\$12	\$6.43	\$0.33	\$313	\$13	\$10.89
WELL NATURAL GAS	4.687	1	\$6,700	\$1,340	\$46	\$15.64	\$8.00	\$700	\$74	\$51.31
			\$63,302	\$12,660	\$437	\$17.74		\$11,588	\$1,119	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP. CODE	MAK.	FUEL	LUBE	ACUM. COSTS	REPAIRS	AGE	INTEREST	EST.	ALFALFA	ALFALFA	CORN	FOR	PINTO	PER ACRE	
TRACTOR	60 HP	\$15,000	\$4,000	4.00	1.00	800.00	4.42	0.10	2000.00	24.00	\$40.00	0.45	0.95	0.73	1.10	2.38			
TRACTOR	80 HP	\$20,000	\$5,000	4.00	1.00	800.00	5.14	0.10	2000.00	27.00	\$40.00	0.45	1.11	0.90	1.00	1.40			
TRACTOR	1 TON	\$20,000	\$5,000	4.00	1.00	800.00	5.14	0.10	2000.00	27.00	\$40.00	0.45	1.11	0.90	1.00	1.40			
TRACTOR	36	\$16,000	\$4,000	4.00	1.00	800.00	5.14	0.10	2000.00	27.00	\$40.00	0.45	1.11	0.90	1.00	1.40			
CORN HEAD	18	\$1,200	\$300	4.00	1.00	300.00	0.86	0.00	750.00	21.00	\$40.00	0.00	0.00	0.35	0.31	0.38			
CORN HEAD	18	\$1,200	\$300	4.00	1.00	300.00	0.86	0.00	750.00	21.00	\$40.00	0.00	0.00	0.35	0.31	0.38			
BEAN HEAD	20	\$800	\$200	4.00	1.00	200.00	0.80	0.00	600.00	15.00	\$40.00	0.00	0.00	0.31	0.31	0.31			
BEAN HEAD	14 FT	\$2,700	\$675	4.00	1.00	675.00	14.49	0.00	1,925.00	44.25	\$40.00	0.00	0.00	0.30	0.30	0.30			
BEAN HEAD	2 WHEEL	14	\$1,200	\$300	4.00	1.00	300.00	0.86	0.00	750.00	21.00	\$40.00	0.00	0.00	0.35	0.35	0.35		
BEAN HEAD	4 ROW	\$700	\$175	4.00	1.00	175.00	2.87	0.00	525.00	13.50	\$40.00	0.00	0.00	0.34	0.34	0.34			
CHISEL, 12 FT	12	\$1,200	\$300	4.00	1.00	300.00	5.34	0.00	900.00	22.50	\$40.00	0.00	0.00	0.30	0.30	0.30			
CHISEL, 14 FT	14	\$1,200	\$300	4.00	1.00	300.00	5.34	0.00	900.00	22.50	\$40.00	0.00	0.00	0.30	0.30	0.30			
CHISEL, 16 FT	16	\$1,200	\$300	4.00	1.00	300.00	5.34	0.00	900.00	22.50	\$40.00	0.00	0.00	0.30	0.30	0.30			
CHISEL, 18 FT	18	\$1,200	\$300	4.00	1.00	300.00	5.34	0.00	900.00	22.50	\$40.00	0.00	0.00	0.30	0.30	0.30			
DISC	2	\$2,000	\$500	4.00	1.00	500.00	10.67	0.00	1,500.00	36.00	\$40.00	0.00	0.00	0.30	0.30	0.30			
DISC	2	\$2,000	\$500	4.00	1.00	500.00	10.67	0.00	1,500.00	36.00	\$40.00	0.00	0.00	0.30	0.30	0.30			
LETTER	4 ROW	\$1,800	\$450	4.00	1.00	450.00	6.43	0.00	1,350.00	33.00	\$40.00	0.00	0.00	0.34	0.34	0.34			
FERT SPREADER	DEALER FURNISHED	\$1,800	\$450	4.00	1.00	450.00	6.43	0.00	1,350.00	33.00	\$40.00	0.00	0.00	0.34	0.34	0.34			
WELL NATURAL GAS	4.687	1	\$6,700	\$1,340	4.00	1.00	1,340.00	0.00	0.00	6,360.00	14.00	0.00	0.00	0.00	0.10	0.10			

USAGE LIST

ALFALFA	ALFALFA	CORN	FOR	PINTO	PER ACRE	
EST.	MAK.	GRAN.	SEARS	TOTAL	CUSTOM	
TRACTOR	60 HP	0.45	0.95	0.73	1.10	2.38
TRACTOR	80 HP	0.45	1.11	0.90	1.00	3.46
TRACTOR	1 TON	0.45	1.11	0.90	1.00	3.46
TRACTOR	36	0.45	1.11	0.90	1.00	3.46
CORN HEAD	18	0.00	0.00	0.35	0.31	0.66
CORN HEAD	18	0.00	0.00	0.35	0.31	0.66
BEAN HEAD	20	0.00	0.00	0.31	0.31	0.62
BEAN HEAD	14 FT	0.00	0.00	0.30	0.30	0.60
BEAN HEAD	2 WHEEL	0.00	0.00	0.35	0.35	0.70
BEAN HEAD	4 ROW	0.00	0.00	0.34	0.34	0.68
CHISEL, 12 FT	12	0.00	0.00	0.30	0.30	0.60
CHISEL, 14 FT	14	0.00	0.00	0.30	0.30	0.60
CHISEL, 16 FT	16	0.00	0.00	0.30	0.30	0.60
CHISEL, 18 FT	18	0.00	0.00	0.30	0.30	0.60
DISC	2	0.00	0.00	0.30	0.30	0.60
DISC	2	0.00	0.00	0.30	0.30	0.60
LETTER	4 ROW	0.00	0.00	0.34	0.34	0.68
FERT SPREADER	DEALER FURNISHED	0.00	0.00	0.34	0.34	0.68
WELL NATURAL GAS	4.687	0.00	0.00	0.10	0.10	0.20

INTEREST PROVISION

ALFALFA	CORN	FOR	PINTO	BEANS	
EST.	MAK.	GRAN.	SEARS	TOTAL	
TRACTOR	60 HP	0.45	0.95	0.73	2.13
TRACTOR	80 HP	0.45	1.11	0.90	2.46
TRACTOR	1 TON	0.45	1.11	0.90	2.46
TRACTOR	36	0.45	1.11	0.90	2.46
CORN HEAD	18	0.00	0.00	0.35	0.35
CORN HEAD	18	0.00	0.00	0.35	0.35
BEAN HEAD	20	0.00	0.00	0.31	0.31
BEAN HEAD	14 FT	0.00	0.00	0.30	0.30
BEAN HEAD	2 WHEEL	0.00	0.00	0.35	0.35
BEAN HEAD	4 ROW	0.00	0.00	0.34	0.34
CHISEL, 12 FT	12	0.00	0.00	0.30	0.30
CHISEL, 14 FT	14	0.00	0.00	0.30	0.30
CHISEL, 16 FT	16	0.00	0.00	0.30	0.30
CHISEL, 18 FT	18	0.00	0.00	0.30	0.30
DISC	2	0.00	0.00	0.30	0.30
DISC	2	0.00	0.00	0.30	0.30
LETTER	4 ROW	0.00	0.00	0.34	0.34
FERT SPREADER	DEALER FURNISHED	0.00	0.00	0.34	0.34
WELL NATURAL GAS	4.687	0.00	0.00	0.10	0.10

ALFALFA ESTABLISHMENT

ALFALFA	CORN	FOR	PINTO	PER ACRE	
EST.	MAK.	GRAN.	SEARS	TOTAL	
TRACTOR	60 HP	0.45	0.95	0.73	2.13
TRACTOR	80 HP	0.45	1.11	0.90	2.46
TRACTOR	1 TON	0.45	1.11	0.90	2.46
TRACTOR	36	0.45	1.11	0.90	2.46
CORN HEAD	18	0.00	0.00	0.35	0.35
CORN HEAD	18	0.00	0.00	0.35	0.35
BEAN HEAD	20	0.00	0.00	0.31	0.31
BEAN HEAD	14 FT	0.00	0.00	0.30	0.30
BEAN HEAD	2 WHEEL	0.00	0.00	0.35	0.35
BEAN HEAD	4 ROW	0.00	0.00	0.34	0.34
CHISEL, 12 FT	12	0.00	0.00	0.30	0.30
CHISEL, 14 FT	14	0.00	0.00	0.30	0.30
CHISEL, 16 FT	16	0.00	0.00	0.30	0.30
CHISEL, 18 FT	18	0.00	0.00	0.30	0.30
DISC	2	0.00	0.00	0.30	0.30
DISC	2	0.00	0.00	0.30	0.30
LETTER	4 ROW	0.00	0.00	0.34	0.34
FERT SPREADER	DEALER FURNISHED	0.00	0.00	0.34	0.34
WELL NATURAL GAS	4.687	0.00	0.00	0.10	0.10

ALFALFA ESTABLISHMENT

ALFALFA	CORN	FOR	PINTO	PER ACRE	
EST.	MAK.	GRAN.	SEARS	TOTAL	
TRACTOR	60 HP	0.45	0.95	0.73	2.13
TRACTOR	80 HP	0.45	1.11	0.90	2.46
TRACTOR	1 TON	0.45	1.11	0.90	2.46
TRACTOR	36	0.45	1.11	0.90	2.46
CORN HEAD	18	0.00	0.00	0.35	0.35
CORN HEAD	18	0.00	0.00	0.35	0.35
BEAN HEAD	20	0.00	0.00	0.31	0.31
BEAN HEAD	14 FT	0.00	0.00	0.30	0.30
BEAN HEAD	2 WHEEL	0.00	0.00		

TABLE 6. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for a 160 acre part-time farm, Estancia Basin, Projected 2006.
Planting dates: August 1 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED	\$3.20	20 LBS		\$64.00				\$64.00
PUMP WATER*		6 AC. IN.						
SUBTOTAL				\$64.00				\$64.00
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	96 HP	0.34 HR		\$2.26	\$4.35	\$2.98	\$10.78	\$20.37
CHISEL	96 HP	0.20 HR		\$1.33	\$2.56	\$0.71	\$4.72	\$9.32
FLOAT	65 HP	0.19 HR		\$1.26	\$1.85	\$0.25	\$8.18	\$11.54
LISTER	96 HP	0.18 HR		\$1.20	\$2.30	\$0.73	\$3.58	\$7.81
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.49	\$0.06	\$0.29	\$1.17
DRILL	65 HP	0.21 HR		\$1.40	\$2.04	\$0.49	\$58.53	\$62.46
IRRIGATE		0.75 HR		\$4.76	\$8.34	\$0.00	\$1.16	\$14.26
SUBTOTAL		1.92 HR		\$12.54	\$21.92	\$5.23	\$87.24	\$126.93
OVERHEAD EXPENSES								
DOWNTIME		0.48 HR		\$3.19				\$3.19
EMPLOYEE BENEFITS				\$1.51				\$1.51
INSURANCE			\$0.15					\$0.15
SUPERVISION AND MANAGEMENT				\$8.97				\$8.97
SUBTOTAL		0.48 HR	\$0.15	\$13.67				\$13.82
TOTAL OPERATING EXPENSES		2.40 HR	\$64.15	\$26.21	\$21.92	\$5.23	\$87.24	\$204.75

TABLE 7. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for a 160 acre part-time farm, Estancia Basin, Projected 2006.
Harvesting dates: June 15 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	\$120.00	4.00 TONS (IN FIELD)						\$480.00
GRAZING	\$10.00	1.00 ACRE						\$10.00
TOTAL							\$490.00	
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
NITROGEN (N)	\$0.52	22 LBS	\$11.44					\$11.44
PHOSPHATE (P205)	\$0.40	123 LBS	\$49.20					\$49.20
INSECTICIDE (CUSTOM)	\$23.14	1 ACRE	\$23.14					\$23.14
LIVESTOCK FAC & EQUIP							\$5.00	\$5.00
WIRE	\$0.37	34 LBS	\$12.74					\$12.74
ESTABLISHMENT: Principal		5 YEARS					\$40.95	\$40.95
: Interest							\$5.93	\$5.93
PUMP WATER*		42 AC. IN.						
SUBTOTAL			\$96.52				\$51.88	\$148.40
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.49	\$0.06	\$0.29	\$1.17
IRRIGATE (7X)		3.50 HR		\$22.23	\$58.36	\$0.00	\$8.11	\$88.70
SUBTOTAL		3.55 HR		\$22.56	\$58.85	\$0.06	\$8.40	\$89.87
HARVEST OPERATIONS								
SWATHER (3X)	96 HP	0.48 HR		\$3.19	\$6.14	\$1.13	\$23.39	\$33.85
BALER (3X)	96 HP	0.63 HR		\$4.19	\$8.06	\$1.40	\$16.23	\$29.88
SUBTOTAL		1.11 HR		\$7.38	\$14.19	\$2.53	\$39.63	\$63.74
OVERHEAD EXPENSES								
DOWNTIME		0.29 HR		\$1.93				\$1.93
EMPLOYEE BENEFITS				\$3.59				\$3.59
INSURANCE			\$0.36					\$0.36
LAND TAXES							\$0.84	\$0.84
SUPERVISION AND MANAGEMENT				\$23.68				\$23.68
OTHER EXPENSES			\$111.37					\$111.37
SUBTOTAL		0.29 HR	\$111.73	\$29.20			\$0.84	\$141.77
TOTAL OPERATING EXPENSES		4.95 HR	\$208.24	\$59.14	\$73.04	\$2.60	\$100.75	\$443.77
NET OPERATING PROFIT								\$46.23
INTEREST ON OPERATING CAPITAL		(\$67.35 @ 8.00%)						\$5.39
INTEREST ON EQUIPMENT INVESTMENT								\$39.33
RETURN TO LAND AND RISK								\$1.51

* Pump water costs are shown under irrigation in the preharvest operations section.
BUDGET SUMMARY

GROSS RETURN		\$490.00	
VARIABLE OPERATING EXPENSES	\$283.88		
RETURN OVER VARIABLE EXPENSES		\$206.12	(GROSS MARGIN)
FIXED EXPENSES	\$100.75		
NET FARM INCOME		\$105.37	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$59.14		
NET OPERATING PROFIT		\$46.23	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$44.72		
RETURN TO LAND AND RISK		\$1.51	

TABLE 8. Corn for grain, flood-irrigated, budgeted per acre costs and returns for a 160 acre part-time farm, Estancia Basin, Projected 2006.
 Planting dates: May 1 - May 20
 Harvesting dates: November 1 - November 30

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURN				
CORN FOR GRAIN	\$2.25	120.00 BUSHEL		\$270.00
DIRECT PAYMENT	\$0.00	120.00 BUSHEL	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 BUSHEL		\$0.00
GRAZING	\$12.00	1.00 ACRE		\$12.00
TOTAL				\$282.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.25	25 000	\$31.25		\$31.25
ANHYDROUS AMMONIA (NH3)	\$0.26	200 LBS	\$52.50		\$52.50
NITROGEN (N)	\$0.52	20 LBS	\$10.40		\$10.40
PHOSPHATE (P205)	\$0.40	44 LBS	\$17.60		\$17.60
INSECTICIDE	\$16.99	1 ACRE	\$16.99		\$16.99
HERBICIDE	\$16.99	1 ACRE	\$16.99		\$16.99
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		36 AC. IN.			
CROP INSURANCE	\$0.98				\$0.98
SUBTOTAL			\$145.72	\$5.00	\$151.70

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (2X)	96 HP	0.22 HR		\$1.46	\$2.81	\$1.93	\$6.98	\$13.18
CHISEL	96 HP	0.20 HR		\$1.33	\$2.56	\$0.71	\$4.72	\$9.32
FERT SPREADER	65 HP	0.05 HR		\$0.33	\$0.49	\$0.06	\$0.29	\$1.17
LISTER	96 HP	0.18 HR		\$1.20	\$2.30	\$0.73	\$3.58	\$7.81
PRE IRRIGATE		0.75 HR		\$4.76	\$8.34	\$0.00	\$1.16	\$14.26
PLANTER	65 HP	0.26 HR		\$1.73	\$2.53	\$0.76	\$7.94	\$12.96
CULTIVATOR (2X)	65 HP	0.42 HR		\$2.79	\$4.08	\$1.59	\$4.45	\$12.91
IRRIGATE (5X)		2.50 HR		\$15.88	\$41.69	\$0.00	\$5.80	\$63.36
SUBTOTAL		4.58 HR		\$29.48	\$64.79	\$5.78	\$34.91	\$134.97

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	4-ROW	0.35 HR		\$2.33	\$8.70	\$0.72	\$30.36	\$42.11
HAUL	1-TON	0.50 HR		\$3.33	\$9.08	\$2.80	\$55.59	\$70.79
SUBTOTAL		0.85 HR		\$5.65	\$17.77	\$3.52	\$85.95	\$112.90

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.55 HR		\$3.62				\$3.62
EMPLOYEE BENEFITS			\$4.22				\$4.22
INSURANCE		\$0.42					\$0.42
LAND TAXES						\$0.84	\$0.84
SUPERVISION AND MANAGEMENT			\$17.75				\$17.75
OTHER EXPENSES		\$111.37					\$111.37
SUBTOTAL	0.55 HR	\$111.79	\$25.59			\$0.84	\$138.22

TOTAL OPERATING EXPENSES 5.98 HR \$257.51 \$60.72 \$82.57 \$9.31 \$126.70 \$537.79

NET OPERATING PROFIT (\$255.79)

INTEREST ON OPERATING CAPITAL (\$92.77 @ 8.00%) \$7.42
 INTEREST ON EQUIPMENT INVESTMENT \$94.40

RETURN TO LAND AND RISK (\$357.61)

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$282.00	
VARIABLE OPERATING EXPENSES	\$349.38		
RETURN OVER VARIABLE EXPENSES		(\$67.38)	(GROSS MARGIN)
FIXED EXPENSES	\$126.70		
NET FARM INCOME		(\$194.09)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$60.72		
NET OPERATING PROFIT		(\$254.81)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$101.82		
RETURN TO LAND AND RISK		(\$356.63)	

TABLE 9. Pinto beans, flood-irrigated, budgeted per acre costs and returns for a 160 acre part-time farm, Estancia Basin, Projected 2006.
 Planting dates: May 15 - June 10
 Harvesting dates: September 1 - October 31

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
PINTO BEANS	\$16.00	20.00 CWT (BAGGED, CLEANED)						\$320.00	
TOTAL								\$320.00	
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$0.65	60 LBS	\$39.00						\$39.00
INSECTICIDE (FLY-ON)	\$11.85	1 ACRE	\$11.85						\$11.85
HERBICIDE	\$16.99	1 ACRE	\$16.99						\$16.99
PUMP WATER*		18 AC. IN.							
SUBTOTAL			\$67.84						\$67.84
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC (2X)	96 HP	0.34 HR		\$2.26	\$4.35	\$2.98	\$10.78	\$20.37	
LISTER	96 HP	0.18 HR		\$1.20	\$2.30	\$0.73	\$3.58	\$7.81	
PRE-IRRIGATE		0.75 HR		\$4.76	\$8.34	\$0.00	\$1.16	\$14.26	
PLANTER	65 HP	0.26 HR		\$1.73	\$2.53	\$0.76	\$7.94	\$12.96	
CULTIVATOR (3X)	65 HP	0.63 HR		\$4.00	\$6.13	\$2.38	\$6.67	\$19.18	
IRRIGATE (2X)		1.00 HR		\$6.35	\$16.67	\$0.00	\$2.32	\$25.34	
SUBTOTAL		3.16 HR		\$20.30	\$40.32	\$6.85	\$32.45	\$99.92	
HARVEST OPERATIONS									
CUT	96 HP	0.50 HR		\$3.33	\$6.39	\$1.53	\$6.52	\$17.78	
RAKE	65 HP	0.24 HR		\$1.60	\$2.33	\$0.36	\$2.76	\$7.05	
COMBINE		0.31 HR		\$2.06	\$7.70	\$0.64	\$26.46	\$36.86	
CLEANING & BAGGING				\$60.00				\$60.00	
SUBTOTAL		1.05 HR		\$60.00	\$6.98	\$16.43	\$2.53	\$35.75	\$121.69
OVERHEAD EXPENSES									
DOWNTIME		0.62 HR		\$4.09				\$4.09	
EMPLOYEE BENEFITS				\$3.27				\$3.27	
INSURANCE			\$0.33				\$0.33		
LAND TAXES							\$0.84		
SUPERVISION AND MANAGEMENT				\$15.93				\$15.93	
OTHER EXPENSES			\$111.37				\$111.37		
SUBTOTAL		0.62 HR		\$111.69	\$23.29			\$0.84	\$135.83
TOTAL OPERATING EXPENSES		4.83 HR		\$239.53	\$50.58	\$56.75	\$9.38	\$69.04	\$425.27
NET OPERATING PROFIT								(\$105.27)	
INTEREST ON OPERATING CAPITAL		(\$52.29	@	8.00%)			\$4.18
INTEREST ON EQUIPMENT INVESTMENT								\$65.70	
RETURN TO LAND AND RISK								(\$175.15)	

* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$320.00	
VARIABLE OPERATING EXPENSES	\$305.66		
RETURN OVER VARIABLE EXPENSES		\$14.34	(GROSS MARGIN)
FIXED EXPENSES	\$69.04		
NET FARM INCOME		(\$54.70)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$50.58		
NET OPERATING PROFIT		(\$105.27)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$69.88		
RETURN TO LAND AND RISK		(\$175.15)	

TABLE 10. Summary of per acre costs and returns for a 160 acre part-time, flood-irrigated farm, Estancia Basin, New Mexico
Projected 2006.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	CORN FOR GRAIN	PINTO BEANS
		TONS	BU	CWT
PRIMARY YIELD		4.00	120.00	20.00
PRIMARY PRICE		\$120.00	\$2.25	\$16.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00
SECOND INCOME		\$10.00	\$12.00	\$0.00
GROSS RETURN		\$490.00	\$282.00	\$320.00
CASH OPERATING EXPENSES				
SEED	\$64.00		\$31.25	\$39.00
FERTILIZER		\$60.64	\$80.50	
CHEMICALS		\$23.14	\$33.97	\$28.84
CROP INSURANCE			\$0.98	
OTHER PURCHASED INPUTS		\$12.74		
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$13.58	\$14.68	\$32.54	\$31.73
FUEL-IRRIGATION	\$8.34	\$58.36	\$50.02	\$25.01
REPAIRS	\$5.23	\$2.60	\$9.31	\$9.38
CUSTOM CHARGES				\$60.00
LAND TAXES		\$0.84	\$0.84	\$0.84
OTHER EXPENSES	\$0.15	\$111.73	\$111.79	\$111.69
TOTAL CASH EXPENSES	\$91.30	\$284.72	\$351.20	\$306.50
RETURN OVER CASH EXPENSES	(\$91.30)	\$205.28	(\$69.20)	\$13.50
FIXED EXPENSES	\$87.24	\$99.91	\$125.86	\$68.20
TOTAL EXPENSES	\$178.54	\$384.63	\$477.07	\$374.70
NET FARM INCOME	(\$178.54)	\$105.37	(\$195.07)	(\$54.70)
LABOR AND MANAGEMENT COSTS	\$26.21	\$59.14	\$60.72	\$50.58
NET OPERATING PROFIT	(\$204.75)	\$46.23	(\$255.79)	(\$105.27)
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL		\$5.39	\$7.42	\$4.18
INTEREST ON EQUIPMENT INVESTMENT		\$39.33	\$94.40	\$65.70
TOTAL CAPITAL COSTS	\$0.00	\$44.72	\$101.82	\$69.88
RETURN TO LAND AND RISK	(\$204.75)	\$1.51	(\$357.61)	(\$175.15)
Flex Computation			-137.35	-41.26

TABLE 11. Whole farm summary, Estancia Basin,
Projected 2006.

GROSS RETURNS		
ALFALFA HAY	40.00 ACRES	
CROP		\$19,200
GRAZING		\$400
CORN FOR GRAIN	51.00 ACRES	
CROP		\$13,770
GRAZING		\$612
DIRECT PAYMENT		\$0
PINTO BEANS	59.00 ACRES	
CROP		\$18,880
GROSS RETURN		<u>\$52,862</u>
CASH OPERATING EXPENSES		
SEED		\$4,407
FERTILIZER		\$6,531
CHEMICALS		\$4,360
CROP INSURANCE		\$50
OTHER PURCHASED INPUTS		\$509
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$4,228
FUEL-IRRIGATION		\$6,428
REPAIRS		\$1,174
CUSTOM CHARGES		\$3,540
LAND TAXES		\$126
OTHER EXPENSES		\$16,761
TOTAL CASH EXPENSES		<u>\$48,114</u>
RETURN OVER CASH EXPENSES		\$4,748
FIXED EXPENSES		\$13,499
TOTAL EXPENSES		\$61,613
NET FARM INCOME		(\$8,751)
LABOR AND MANAGEMENT COSTS		\$8,656
NET OPERATING PROFIT		(\$17,407)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$841
INTEREST ON EQUIPMENT INVESTMENT		\$10,264
TOTAL CAPITAL COSTS		<u>\$11,104</u>
RETURN TO LAND AND RISK		<u>(\$28,512)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$750 /ACRE	(\$32,112)	-8.56%
\$1,000 /ACRE	(\$33,312)	-7.15%
\$1,250 /ACRE	(\$34,512)	-6.14%
\$1,500 /ACRE	(\$35,712)	-5.38%

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)

** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LAND VALUE)