

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... ARTESIA-LAKE ARTHUR ARE/Projected 2010.
FARM SIZE..... 500 ACRES
IRRIGATION TYPE..... SPRINKLER
NUMBER OF CROPS..... 6

VERSION 1.0

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TABLE 1. Acreage Summary, Eddy County, Artesia Lake Arthur Area, Projected 2010.

BUDGET AREA..... ARTESIA-LAKE ARTHUR AREA			
FARM SIZE.....	500 ACRES		
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS.....	6		
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	57.00	42	2,394
ALFALFA	285.00	48	13,680
BARLEY	8.50	28	238
ARP	0.00		
FLEX IN PICKER COTTON	1.50	28	42
OAT HAY	8.00	28	224
PICKER COTTON	59.50	28	1,666
ARP	0.00		
FLEX IN PICKER COTTON	10.50	28	294
STRIPPER COTTON	59.50	28	1,666
ARP	0.00		
FLEX IN PICKER COTTON	10.50	28	294
TOTAL	500.00		20,498
ACRE FEE PER ACRE OF WATER RIGHTS			3.42

TABLE 2. Basic cost information for the Artesia-Lake Arthur area, Projected 2010.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.20
General & Irrigators	\$/hour	\$7.25
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.58
Phosphate (P ₂ O ₅)	\$/pound	\$0.51
Chemicals:		
Herbicide	\$/acre	\$0.00
Insecticide	\$/acre	\$0.00
Seed:		
Alfalfa	\$/pound	\$3.75
Cotton picker	\$/pound	\$2.15
stripper	\$/pound	\$2.15
Oats	\$/pound	\$0.38
Barley	\$/pound	\$0.24
Wire:		
Natural gas (service charge)	\$/MCF	\$5.89
Diesel fuel	\$/month	\$10.00
Gasoline	\$/gallon	\$2.80
Electricity	\$/gallon	\$2.50
LP Gas	cents/KwHr	7.66
	\$/gallon	\$2.55
Employee Liability Insurance	\$/ \$1,000 wages	\$0.31
Employee Benefits	percent/wages	18.00%
Labor Downtime	percent	0.00%
Financial Rates:		
Operating Capital Interest Rate	percent	7.50%
Land Interest Rate	percent	7.00%
Equipment Interest Rate	percent	7.50%
Real Interest Rate	percent	4.00%
Land Taxes	\$250.00 /acre (full value)	\$1.75
Personal Property Tax Rate - NR	\$/ \$1,000 (Assessed Value)	\$20.95
- R		\$19.81
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	\$0.08
Field Crop-Equipment & General	\$/labor hour	\$0.03
Vegetable Crop-Irrigation	\$/labor hour	\$0.00
Vegetable Crop-Equip. & General	\$/labor hour	\$0.00
Management Rate		
Field Crops	percent/GR	7.00%
Vegetable Crops	percent/TOE	0.00%

TABLE 3. Overhead cost information for the Artesia-Lake Arthur area, Projected 2010.

Item		
Electricity (Domestic & Shop)	\$231.28 per month	\$2,775.36
Telephone	\$115.64 per month	\$1,387.68
Accounting & Legal		\$1,604.80
Misc. Supplies & Hand Tools		\$1,500.96
Pickup and Auto	miles 23,600 @ \$0.415 per mile	\$9,794.00
Insurance		
- general liability (non-employee)		\$1,792.42
- fire/theft		\$1,604.80
Property Taxes		
- non-planted land		\$0.00
- other than land & machinery		\$0.00
Building repairs and maintenance		\$1,354.64
Dues, fees, publications		\$413.00
Farmstead Equipment		\$175.62
	Total	\$22,403.48
	Total Per Planted Acre	\$50.57

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
Planting dates: March 15 - April 30

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
ALFALFA HAY	\$140.00	6.50 TONS (STACKED)						\$910.00	
TOTAL							\$910.00		
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$3.75	20 LBS		\$75.00				\$75.00	
FERTILIZER (16-20-0)	\$0.21	200 LBS		\$42.00				\$42.00	
HERBICIDE	\$0.00	1 ACRE		\$0.00				\$0.00	
PUMP WATER*		42 AC. IN.							
SUBTOTAL				\$117.00				\$117.00	
PREHARVEST OPERATIONS		POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$3.93	\$1.15	\$2.08	\$8.38	
PLOW	145 HP	0.48 HR		\$3.46	\$11.09	\$4.29	\$7.07	\$25.90	
FLOAT	70 HP	0.16 HR		\$1.15	\$2.73	\$0.33	\$1.40	\$5.62	
PLANE (3X)	145 HP	0.57 HR		\$4.10	\$13.17	\$2.33	\$12.06	\$31.66	
DISC (2X)	145 HP	0.34 HR		\$2.45	\$7.85	\$2.30	\$4.16	\$16.76	
FLOAT (2X)	70 HP	0.32 HR		\$2.30	\$5.46	\$0.67	\$2.81	\$11.24	
DRILL (2X)	70 HP	0.42 HR		\$3.02	\$7.16	\$1.31	\$10.13	\$21.63	
IRRIGATE (6X)		1.50 HR		\$10.88	\$85.97	\$0.00	\$34.89	\$131.73	
SUBTOTAL			3.96 HR	\$28.59	\$137.34	\$12.38	\$74.60	\$252.91	
HARVEST OPERATIONS									
SWATHER (3X)	16 FT	0.33 HR		\$2.38	\$3.46	\$0.48	\$7.23	\$13.54	
RAKE	40 HP	0.05 HR		\$0.36	\$0.47	\$0.08	\$0.40	\$1.30	
BALER (3X)	145 HP	0.75 HR		\$5.40	\$17.32	\$3.14	\$8.07	\$33.93	
BALEWAGON (3X)	SP	0.60 HR		\$4.32	\$11.63	\$13.39	\$4.50	\$33.84	
SUBTOTAL			1.73 HR	\$12.46	\$32.88	\$17.09	\$20.19	\$82.61	
OVERHEAD EXPENSES									
DOWNTIME		0.00 HR		\$0.00					\$0.00
EMPLOYEE BENEFITS				\$7.39					\$7.39
INSURANCE				\$0.01					\$0.01
SUPERVISION AND MANAGEMENT				\$63.94					\$63.94
SUBTOTAL			0.00 HR	\$0.01	\$71.33				\$71.34
TOTAL OPERATING EXPENSES			5.69 HR	\$117.01	\$112.37	\$170.22	\$29.47	\$94.80	\$523.87
NET OPERATING PROFIT									\$386.13
INTEREST ON EQUIPMENT INVESTMENT									\$45.69
RETURN TO LAND AND RISK									\$340.44

BUDGET SUMMARY			
GROSS RETURN		\$910.00	
VARIABLE OPERATING EXPENSES	\$316.70		
RETURN OVER VARIABLE EXPENSES		\$593.30	(GROSS MARGIN)
FIXED EXPENSES	\$94.80		
NET FARM INCOME		\$498.50	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$112.37		
NET OPERATING PROFIT		\$386.13	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$45.69		
RETURN TO LAND AND RISK		\$340.44	

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
Harvesting Dates: May 5 - November 1

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALFA HAY	\$140.00	6.50 TONS (STACKED)	\$910.00
GRAZING	\$40.00		\$40.00
TOTAL			\$950.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
INSECTICIDE (CUSTOM)	\$0.00	2 X/ACRE	\$0.00		\$0.00
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25		\$5.25
FERTILIZER (5-26-30)	\$0.58	200 LBS	\$116.00		\$116.00
WIRE	\$5.00	56 LBS	\$278.53		\$278.53
DRYING AGENT (AGRI-DRY)	\$8.26	1 /TON	\$53.66		\$53.66
ESTABLISHMENT: Principal		5 YEARS		\$68.09	\$68.09
: Interest				\$11.59	\$11.59
PUMP WATER*		48 AC. IN.			
SUBTOTAL			\$453.44	\$79.67	\$533.11

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (6X)		1.50 HR		\$10.88	\$98.25	\$0.00	\$39.87	\$148.99
SUBTOTAL		1.50 HR		\$10.88	\$98.25	\$0.00	\$39.87	\$148.99

HARVEST OPERATIONS

SWATHER (5X)	16 FT SP	0.55 HR		\$3.96	\$5.77	\$0.80	\$12.05	\$22.57
RAKE (5X)	40 HP	0.25 HR		\$1.80	\$2.34	\$0.38	\$1.98	\$6.50
BALER (5X)	96 HP	1.25 HR		\$9.00	\$21.31	\$2.87	\$6.30	\$39.48
BALE WAGON (5X)	SP	1.00 HR		\$7.20	\$19.38	\$22.32	\$7.50	\$56.40
SUBTOTAL		3.05 HR		\$21.96	\$48.80	\$26.36	\$27.83	\$124.95

OVERHEAD EXPENSES

DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$5.91				\$5.91
INSURANCE			\$0.01					\$0.01
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$66.70				\$66.70
OTHER EXPENSES			\$50.57					\$50.57
SUBTOTAL		0.00 HR	\$50.58	\$72.61			\$1.75	\$124.94

TOTAL OPERATING EXPENSES		4.55 HR	\$504.02	\$105.45	\$147.04	\$26.36	\$149.12	\$931.99
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NET OPERATING PROFIT								\$18.01
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INTEREST ON OPERATING CAPITAL	(\$257.54	@	7.50%)			\$19.32
INTEREST ON EQUIPMENT INVESTMENT								\$24.62

RETURN TO LAND AND RISK								(\$25.93)
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$950.00	
VARIABLE OPERATING EXPENSES	\$677.42		
RETURN OVER VARIABLE EXPENSES	\$272.58	(GROSS MARGIN)	
FIXED EXPENSES	\$149.12		
NET FARM INCOME	\$123.46	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$105.45		
NET OPERATING PROFIT	\$18.01	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$43.93		
RETURN TO LAND AND RISK		(\$25.93)	

TABLE 8. Barley, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
Planting dates: August 20 - September 30
Harvesting dates: June 15 - July 1

ITEM	PRICE	YIELD		TOTAL
GROSS RETURNS				
BARLEY	\$6.00	35.00 CWT		\$210.00
DIRECT PAYMENT	\$0.00	35.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	35.00 CWT	0.85	\$0.00
GRAZING	\$40.00			\$40.00
TOTAL				\$250.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.24	110 LBS	\$26.40		\$26.40
NITROGEN (N)	\$0.58	150 LBS	\$87.00		\$87.00
INSECTICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
PUMP WATER*		28 AC. IN.			
CROP INSURANCE	\$5.88		\$5.88		\$5.88
SUBTOTAL			\$119.28		\$119.28

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48 HR		\$3.46	\$11.09	\$4.29	\$7.07	\$25.90
DISC (2X)	145 HP	0.34 HR		\$2.45	\$7.85	\$2.30	\$4.16	\$16.76
FERTILIZE	DEALER APPLIED							
DRILL	70 HP	0.21 HR		\$1.51	\$3.58	\$0.66	\$5.07	\$10.82
IRRIGATE (4X)		1.00 HR		\$7.25	\$57.31	\$0.00	\$23.26	\$87.82
SUBTOTAL		2.03 HR		\$14.67	\$79.83	\$7.24	\$39.55	\$141.29

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$17.91					\$17.91
HAUL (CUSTOM)			\$7.00					\$7.00
SUBTOTAL			\$24.91					\$24.91

OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$2.64				\$2.64
INSURANCE			\$0.00					\$0.00
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$17.61				\$17.61
OTHER EXPENSES			\$50.57					\$50.57
SUBTOTAL		0.00 HR		\$50.58	\$20.25		\$1.75	\$72.57

TOTAL OPERATING EXPENSES		2.03 HR		\$194.77	\$34.91	\$79.83	\$7.24	\$41.30	\$358.05
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NET OPERATING PROFIT (\$108.05)

INTEREST ON OPERATING CAPITAL	(\$83.49	@	7.50%)			\$6.26
INTEREST ON EQUIPMENT INVESTMENT								\$12.78

RETURN TO LAND AND RISK (\$127.09)

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

GROSS RETURN		\$250.00		
VARIABLE OPERATING EXPENSES	\$281.84			
RETURN OVER VARIABLE EXPENSES		(\$31.84)	(GROSS MARGIN)	
FIXED EXPENSES	\$41.30			
NET FARM INCOME		(\$73.14)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$34.91			
NET OPERATING PROFIT		(\$108.05)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$19.04			
RETURN TO LAND AND RISK		(\$127.09)		

TABLE 9. Oat hay, sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
Planting dates: February 1 - February 28
Harvesting Dates: June 1 - June 30

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
OAT HAY	\$100.00	3.50 TONS (STACKED)						\$350.00
TOTAL							\$350.00	
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.38	100 LBS	\$38.00					\$38.00
FERTILIZER (16-20-0)	\$0.51	150 LBS	\$76.50					\$76.50
PUMP WATER*		28 AC. IN.						
SUBTOTAL			\$114.50					\$114.50
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
PLOW	145 HP	0.48 HR		\$3.46	\$11.09	\$4.29	\$7.07	\$25.90
DISC (2X)	145 HP	0.34 HR		\$2.45	\$7.85	\$2.30	\$4.16	\$16.76
DRILL	70 HP	0.21 HR		\$1.51	\$3.58	\$0.66	\$5.07	\$10.82
IRRIGATE (4X)		1.00 HR		\$7.25	\$57.31	\$0.00	\$23.26	\$87.82
SUBTOTAL		2.03 HR		\$14.67	\$79.83	\$7.24	\$39.55	\$141.29
HARVEST OPERATIONS								
SWATHER	14 FT	0.16 HR		\$1.15	\$1.68	\$0.23	\$3.50	\$6.57
BALER	145 HP	0.25 HR		\$1.80	\$5.77	\$1.05	\$2.69	\$11.31
BALE WAGON	S. P.	0.20 HR		\$1.44	\$3.88	\$4.46	\$1.50	\$11.28
SUBTOTAL		0.61 HR		\$4.39	\$11.33	\$5.74	\$7.69	\$29.16
OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS				\$3.43				\$3.43
INSURANCE			\$0.01					\$0.01
LAND TAXES							\$1.75	\$1.75
SUPERVISION AND MANAGEMENT				\$24.62				\$24.62
OTHER EXPENSES			\$50.57					\$50.57
SUBTOTAL		0.00 HR	\$50.58	\$28.05			\$1.75	\$80.38
TOTAL OPERATING EXPENSES		2.64 HR	\$165.08	\$47.11	\$91.16	\$12.99	\$48.99	\$365.33
NET OPERATING PROFIT							(\$15.33)	
INTEREST ON OPERATING CAPITAL		(\$80.44	@	7.50%)	\$6.03	
INTEREST ON EQUIPMENT INVESTMENT							\$18.55	
RETURN TO LAND AND RISK							(\$39.91)	

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

BUDGET SUMMARY

GROSS RETURN		\$350.00	
VARIABLE OPERATING EXPENSES	\$269.22		
RETURN OVER VARIABLE EXPENSES		\$80.78	(GROSS MARGIN)
FIXED EXPENSES	\$48.99		
NET FARM INCOME		\$31.78	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$47.11		
NET OPERATING PROFIT		(\$15.33)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$24.58		
RETURN TO LAND AND RISK		(\$39.91)	

TABLE 10. Upland cotton (picker), sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
 Planting dates: April 15 - May 15
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.80	700 LBS		\$560.00
COTTON SEED	\$0.07	1,120.00 LBS		\$78.40
DIRECT PAYMENT	\$0.0000	700 LBS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.1373	700 LBS	0.85	\$81.69
TOTAL				\$720.09

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.15	15 LBS	\$32.25		\$32.25
FOLIAR FERTILIZER	\$4.80	1 X/ACRE	\$4.80		\$4.80
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25		\$5.25
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
INSECTICIDE (CUSTOM)	\$0.00	3 X/ACRE	\$0.00		\$0.00
CROP INSURANCE			\$1.64		\$1.64
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$43.94		\$43.94

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$3.93	\$1.15	\$2.08	\$8.38
FLOW	145 HP	0.48 HR		\$3.46	\$11.09	\$4.29	\$7.07	\$25.90
DISC (2X)	145 HP	0.34 HR		\$2.45	\$7.85	\$2.30	\$4.16	\$16.76
FLOAT	145 HP	0.16 HR		\$1.15	\$3.70	\$0.64	\$1.69	\$7.17
PRE-IRRIGATE		0.25 HR		\$1.81	\$14.33	\$0.00	\$5.81	\$21.95
CULTIVATOR	65 HP	0.21 HR		\$1.51	\$2.55	\$1.57	\$1.77	\$7.40
PLANTER	70 HP	0.26 HR		\$1.87	\$4.43	\$0.96	\$6.93	\$14.19
SLED	70 HP	0.15 HR		\$1.08	\$2.56	\$0.35	\$1.50	\$5.48
CULTIVATOR (3X)	65 HP	0.63 HR		\$4.54	\$7.66	\$4.72	\$5.30	\$22.21
HAND HOE (CUSTOM)			\$20.00					\$20.00
IRRIGATE (3X)		0.75 HR		\$5.44	\$42.98	\$0.00	\$17.44	\$65.86
SUBTOTAL		3.40 HR	\$20.00	\$24.53	\$101.07	\$15.98	\$53.74	\$215.33

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON PICKER (2X)	2-ROW	0.74 HR		\$5.33	\$12.53	\$12.68	\$183.30	\$213.84
HAUL (2X)	65 HP	1.00 HR		\$7.20	\$12.16	\$1.32	\$6.64	\$27.32
GIN COTTON (CUSTOM)			\$104.30					\$104.30
SUBTOTAL		1.74 HR	\$104.30	\$12.53	\$24.69	\$14.00	\$189.94	\$345.46

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	70 HP	0.14 HR		\$1.01	\$2.39	\$0.35	\$3.53	\$7.27
SUBTOTAL		0.14 HR		\$1.01	\$2.39	\$0.35	\$3.53	\$7.27

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS			\$6.85				\$6.85
INSURANCE		\$0.01					\$0.01
LAND TAXES						\$1.75	\$1.75
SUPERVISION AND MANAGEMENT			\$50.61				\$50.61
OTHER EXPENSES		\$50.57					\$50.57
SUBTOTAL	0.00 HR	\$50.58	\$57.46			\$1.75	\$109.79

TOTAL OPERATING EXPENSES	5.28 HR	\$218.82	\$95.52	\$128.15	\$30.33	\$248.96	\$721.79
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NET OPERATING PROFIT (\$1.69)

INTEREST ON OPERATING CAPITAL (\$55.14 @ 7.50%) \$4.14
 INTEREST ON EQUIPMENT INVESTMENT \$127.56

RETURN TO LAND AND RISK (\$133.39)

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

BUDGET SUMMARY

GROSS RETURN	\$720.09	
VARIABLE OPERATING EXPENSES	\$377.30	
RETURN OVER VARIABLE EXPENSES	\$342.79	(GROSS MARGIN)
FIXED EXPENSES	\$248.96	
NET FARM INCOME	\$93.83	(RETURN TO CAPITAL, LABOR, LAND & RISK)
aes	\$95.52	
NET OPERATING PROFIT	(\$1.69)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$131.69	
RETURN TO LAND AND RISK	(\$133.39)	

TABLE 11. Upland cotton (stripper), sprinkler-irrigated, budgeted per acre costs and returns for a 500 acre farm with above average management, Artesia-Lake Arthur area, Projected 2010.
 Planting dates: April 15 - May 15
 Harvesting dates: October 15 - January 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
COTTON LINT	\$0.76	700 LBS		\$532.00
COTTON SEED	\$0.07	1,120 LBS		\$78.40
DIRECT PAYMENT	\$0.0000	700 LBS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.1373	700 LBS	0.85	\$81.69
TOTAL				\$692.09

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.15	20 LBS	\$43.00		\$43.00
FOLIAR FERTILIZER	\$4.80	1 X/ACRE	\$4.80		\$4.80
INSECT SCOUTING	\$5.25	1 ACRE	\$5.25		\$5.25
HERBICIDE (CUSTOM)	\$0.00	1 X/ACRE	\$0.00		\$0.00
INSECTICIDE (CUSTOM)	\$0.00	3 X/ACRE	\$0.00		\$0.00
CROP INSURANCE		FCIC	\$1.19		\$1.19
PUMP WATER*		28 AC. IN.			
SUBTOTAL			\$54.24		\$54.24

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	145 HP	0.17 HR		\$1.22	\$3.93	\$1.15	\$2.08	\$8.38
FLOW	145 HP	0.48 HR		\$3.46	\$11.09	\$4.29	\$7.07	\$25.90
DISC (2X)	145 HP	0.34 HR		\$2.45	\$7.85	\$2.30	\$4.16	\$16.76
FLOAT	145 HP	0.16 HR		\$1.15	\$3.70	\$0.64	\$1.69	\$7.17
PRE-IRRIGATE		0.25 HR		\$1.81	\$14.33	\$0.00	\$5.81	\$21.95
CULTIVATOR	65 HP	0.21 HR		\$1.51	\$2.55	\$1.57	\$1.77	\$7.40
PLANTER	70 HP	0.26 HR		\$1.87	\$4.43	\$0.96	\$6.93	\$14.19
SLED	70 HP	0.15 HR		\$1.08	\$2.56	\$0.35	\$1.50	\$5.48
CULTIVATOR (3X)	65 HP	0.63 HR		\$4.54	\$7.66	\$4.72	\$5.30	\$22.21
HAND HOE (CUSTOM)			\$20.00					\$20.00
IRRIGATE (3X)		0.75 HR		\$5.44	\$42.98	\$0.00	\$17.44	\$65.86
SUBTOTAL		3.40 HR	\$20.00	\$24.53	\$101.07	\$15.98	\$53.74	\$215.33

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COTTON STRIPPER	70 HP	0.62 HR		\$4.46	\$10.57	\$1.86	\$18.21	\$35.11
HAUL	65 HP	0.75 HR		\$5.40	\$9.12	\$0.99	\$4.98	\$20.49
GIN COTTON (CUSTOM)			\$134.89					\$134.89
SUBTOTAL		1.37 HR	\$134.89	\$9.86	\$19.69	\$2.85	\$23.20	\$190.49

POSTHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SHREDDER	70 HP	0.14 HR		\$0.56	\$2.39	\$0.35	\$3.53	\$6.82
SUBTOTAL		0.14 HR		\$0.56	\$2.39	\$0.35	\$3.53	\$6.82

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.00 HR		\$0.00				\$0.00
EMPLOYEE BENEFITS			\$6.29				\$6.29
INSURANCE		\$0.01					\$0.01
LAND TAXES						\$1.75	\$1.75
SUPERVISION AND MANAGEMENT			\$48.62				\$48.62
OTHER EXPENSES		\$50.57					\$50.57
SUBTOTAL	0.00 HR	\$50.58	\$54.91			\$1.75	\$107.24

TOTAL OPERATING EXPENSES	4.91 HR	\$259.71	\$89.86	\$123.15	\$19.17	\$82.21	\$574.11
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NET OPERATING PROFIT							\$117.98
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INTEREST ON OPERATING CAPITAL	(\$58.94 @ 7.50%)						\$4.42
INTEREST ON EQUIPMENT INVESTMENT							\$40.64

RETURN TO LAND AND RISK							\$72.92
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$692.09	
VARIABLE OPERATING EXPENSES	\$402.04		
RETURN OVER VARIABLE EXPENSES		\$290.06	(GROSS MARGIN)
FIXED EXPENSES	\$82.21		
NET FARM INCOME		\$207.84	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$89.86		
NET OPERATING PROFIT		\$117.98	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$45.06		
RETURN TO LAND AND RISK		\$72.92	

TABLE 12. Summary of per acre costs and returns for a 500 acre farm with above average, Artesia-Lake Authur area, Projected 2010.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	BARLEY	OAT HAY	PICKER COTTON	STRIPPER COTTON
	TONS	TONS	CWT	TONS	LBS	LBS
PRIMARY YIELD	6.50	6.50	35.00	3.50	700.00	700.00
PRIMARY PRICE	\$140.00	\$140.00	\$6.00	\$100.00	\$0.80	\$0.76
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00	\$81.69	\$81.69
SECOND INCOME	\$0.00	\$40.00	\$40.00	\$0.00	\$78.40	\$78.40
GROSS RETURN	\$910.00	\$950.00	\$250.00	\$350.00	\$720.09	\$692.09
CASH OPERATING EXPENSES						
SEED	\$75.00		\$26.40	\$38.00	\$32.25	\$43.00
FERTILIZER	\$42.00	\$116.00	\$87.00	\$76.50	\$4.80	\$4.80
CHEMICALS	\$0.00	\$5.25	\$0.00		\$5.25	\$5.25
CROP INSURANCE			\$5.88		\$1.64	\$1.19
OTHER PURCHASED INPUTS		\$332.19				
CANAL WATER						
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$84.26	\$48.80	\$22.52	\$33.85	\$70.84	\$65.84
FUEL-IRRIGATION	\$85.97	\$98.25	\$57.31	\$57.31	\$57.31	\$57.31
REPAIRS	\$29.47	\$26.36	\$7.24	\$12.99	\$30.33	\$19.17
CUSTOM CHARGES			\$24.91		\$124.30	\$154.89
LAND TAXES		\$1.75	\$1.75	\$1.75	\$1.75	\$1.75
OTHER EXPENSES	\$0.01	\$50.58	\$50.58	\$50.58	\$50.58	\$50.58
TOTAL CASH EXPENSES	\$316.70	\$679.17	\$283.59	\$270.97	\$379.05	\$403.78
RETURN OVER CASH EXPENSES	\$593.30	\$270.83	(\$33.59)	\$79.03	\$341.04	\$288.31
FIXED EXPENSES	\$94.80	\$147.38	\$39.55	\$47.25	\$247.21	\$80.47
TOTAL EXPENSES	\$411.50	\$826.54	\$323.14	\$318.22	\$626.26	\$484.25
NET FARM INCOME	\$498.50	\$123.46	(\$73.14)	\$31.78	\$93.83	\$207.84
LABOR AND MANAGEMENT COSTS	\$112.37	\$105.45	\$34.91	\$47.11	\$95.52	\$89.86
NET OPERATING PROFIT	\$386.13	\$18.01	(\$108.05)	(\$15.33)	(\$1.69)	\$117.98
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$19.32	\$6.26	\$6.03	\$4.14	\$4.42
INTEREST ON EQUIPMENT INVESTMENT	\$45.69	\$24.62	\$12.78	\$18.55	\$127.56	\$40.64
TOTAL CAPITAL COSTS	\$45.69	\$43.93	\$19.04	\$24.58	\$131.69	\$45.06
RETURN TO LAND AND RISK	\$340.44	(\$25.93)	(\$127.09)	(\$39.91)	(\$133.39)	\$72.92

Flex Computation

-74.762368 25.885695 241.38548 194.02949

TABLE 13. Whole farm summary, Artesia-Lake Arthur area,
Projected 2010.

GROSS RETURNS		
ALFALFA HAY	342 ACRES	\$322,620
CROP		\$11,400
GRAZING		
BARLEY	8.5 ACRES	\$1,785
CROP		\$0
DIRECT PAYMENTS		\$0
COUNTER CYCLICAL PAYMENT		\$340
GRAZING		
OAT HAY	8 ACRES	\$2,800
CROP		
PICKER COTTON	82 ACRES	\$45,920
COTTON LINT		\$6,429
COTTON SEED		\$0
DIRECT PAYMENTS		\$6,699
COUNTER CYCLICAL PAYMENT		
STRIPPER COTTON	59.5 ACRES	\$31,654
COTTON LINT		\$4,665
COTTON SEED		\$0
DIRECT PAYMENTS		\$4,861
COUNTER CYCLICAL PAYMENT		
		\$439,172
GROSS RETURN		
CASH OPERATING EXPENSES		
SEED		\$10,006
FERTILIZER		\$37,485
CHEMICALS		\$2,239
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$94,674
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$28,898
FUEL-IRRIGATION		\$41,956
REPAIRS		\$12,985
CUSTOM CHARGES		\$19,620
LAND TAXES		\$773
OTHER EXPENSES		\$22,409
		\$271,195
TOTAL CASH EXPENSES		
		\$167,977
RETURN OVER CASH EXPENSES		
		\$53,774
FIXED EXPENSES		
		\$324,969
TOTAL EXPENSES		
		\$114,204
NET FARM INCOME		
		\$50,311
LABOR AND MANAGEMENT COSTS		
		\$63,892
NET OPERATING PROFIT		
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$6,209
INTEREST ON EQUIPMENT INVESTMENT		\$22,756
		\$28,964
TOTAL CAPITAL COSTS		
RETURN TO LAND AND RISK		
		\$34,928

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$1,000 /ACRE	\$14,928	7.07%
\$2,500 /ACRE	(\$15,072)	3.86%
\$4,000 /ACRE	(\$45,072)	2.66%
\$5,500 /ACRE	(\$75,072)	2.03%

* 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)