

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... DRY CIMARRON AREA, UNION COUProjected 2009.
FARM SIZE..... 80.00 ACRES
IRRIGATION TYPE..... FLOOD
NUMBER OF CROPS..... 2

VERSION 1.0

COPYRIGHT (C) 1984 by NEW MEXICO STATE UNIVERSITY BOARD OF REGENTS

New Mexico State University is an equal opportunity employer. All programs are available to everyone regardless of race, color, religion, sex, age, handicap, or national origin. New Mexico State University and the U.S. Department of Agriculture Cooperating.

* YOU MAY ENTER DATA IN ANY INPUT TABLE WITH
HIGHLIGHTED CELLS OR YOU MAY STRIKE
[ENTER] AND RETURN TO THE MENU

** BE SURE PRINTER IS ON AND PAPER IS ALIGNED
BEFORE YOU PRINT

TABLE 1. Acreage Summary, Union County, Projected 2009.

BUDGET AREA.....	DRY CIMARRON AREA, UNION COUNTY		
FARM SIZE.....	80 ACRES		
IRRIGATION TYPE.....	FLOOD		
NUMBER OF CROPS...	2		
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	4	4.5	18
ALFALFA	40	24	960
NATIVE GRASS	40	18	720
TOTAL	84		1,698
	ACRE FEET PER ACRE OF WATER RIGHTS		1.68

TABLE 2. Basic cost information for Dry Cimarron area, Union County, Projected 2009.

Item			
Labor Wage Rate:			
Equipment operators	\$/hour		\$8.55
General & Irrigators	\$/hour		\$7.25
Purchased Inputs:			
Seed:			
Alfalfa	\$/pound		\$4.00
Natural gas			
Natural gas	\$/MCF		\$5.89
Diesel fuel	\$/gallon		\$2.80
Gasoline	\$/gallon		\$2.50
Electricity	cents/KwHr		6.85
LP Gas	\$/gallon		\$2.40
Baling Wire	\$/pound		\$0.55
Employee Liability Insurance	\$/ \$1,000 wages		\$20.00
Employee Benefits	percent/wages		18.00%
Labor Downtime	percent		25.00%
Financial Rates:			
Operating Capital Interest Rate	percent		7.50%
Land Interest Rate	percent		7.25%
Equipment Interest Rate	percent		7.50%
Real Interest Rate	percent		3.00%
Land Taxes	\$27.00 /acre (full value)		\$0.20
Personal Property Tax Rate	-NR - R	\$/ \$1,000 (Assessed Value)	\$22.03 \$20.47
Supervision Factors			
Field Crop-Irrigation	\$/labor hour		\$1.00
Field Crop-Equipment & General	\$/labor hour		\$0.50
Management Rate	percent		7.00%

TABLE 3. Overhead cost information for the Dry Cimarron area, Projected 2009.

Item			
Electricity (Domestic & Shop)		\$116.00 per month	\$1,392
Telephone		\$92.80 per month	\$1,114
Accounting & Legal			\$522
Misc. Supplies & Hand Tools			\$858
Pickup and Auto			
miles	11,948	@ \$0.415 per mile	\$4,958
Insurance			
- general liability (non-employee)			\$1,114
- fire/theft			\$725
Property Taxes			
- other than land & machinery			\$6,010
Building repairs and maintenance			\$551
Dues, fees, publications			\$278
Farmstead Equipment			\$87
		Total	\$17,609
		Total per planted acre	\$220.12

TABLE 4. Pumping costs and data for irrigation wells, Dry Cimarron area, Union County, Proposed 2000

WELL DATA		DEPTH CHARACTERISTICS	
GALLONS PER MINUTE (GPM)	900	STATE	KS
WORK HORSEPOWER	15	DEPTH	15
		TOTAL HEAD	85
		CASING	75
EFFICIENCY FACTOR:			
ELECTRICITY	0.940		
NATURAL GAS	0.154		
LP GAS	0.154		
DIESEL	0.160		
FUEL COST PER UNIT:			
ELECTRICITY	6.85	CENT/KWH	
NATURAL GAS	\$5.89	BRACF	
LP GAS	\$2.40	GGAL	
DIESEL	\$2.80	GGAL	
FUEL PUMPING COSTS			
ELECTRIC WELL:			
COST PER HOUR	\$1.43		
COST PER ACRE INCH	\$0.72		
NATURAL GAS WELL:			
COST PER HOUR	\$1.81		
COST PER ACRE INCH	\$0.81		
LP GAS WELL:			
COST PER HOUR	\$1.40		
COST PER ACRE INCH	\$0.72		
DIESEL WELL:			
COST PER HOUR	\$1.66		
COST PER ACRE INCH	\$0.85		

TABLE 5. Equipment summary for an 80 acre part-time food-irrigated farm, Dry Cimarron area, Union County, Proposed 2000

EQUIPMENT	ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS				FIXED COSTS			
				TOTAL VALUE	FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL, REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	40 HP	142	1	\$9,888	\$1,492	\$154	\$10.47	\$1.08	\$360	\$66	\$2.99
MOWER	74	1	\$2,300	\$27				\$130	\$10	\$1.89	
BALER	42	1	\$1,800	\$6				\$365	\$28	\$9.84	
RAKE	34	1	\$1,550	\$10				\$105	\$11	\$6.63	
CHISEL (BORROWED)	7 FT	1	1	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0.00	
DISC (BORROWED)	12 FT	1	1	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0.00	
DRILL (BORROWED)	10 FT	1	1	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0.00	
TRUCK	2.5 TON	244	1	\$11,000	\$4,340	\$2,028	\$17.79	\$8.31	\$2,500	\$65	\$11.65
BALLE LOADER	244	1	\$2,500	\$186				\$255	\$19	\$1.12	
ELECTRIC WELL	262	1	\$15,000	\$402	\$0	\$1.43	\$0.00	\$200	\$64	\$2.67	
				\$38,388	\$9,254	\$2,591			\$4,895	\$174	

EQUIPMENT LIST										
ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP. LIFE	MAX. HOURS	FUEL CONSUMPTION (GAL/HR)	LUBE CONSUMPTION (QT/HR)	ACCU. COST (HOURS)	INTEREST EXPENSE	NATIVE GRASS PER ACRE
TRACTOR	19797.00	8888.00	20.00	10.00	800.00	3.40	0.10	2137.20	15.00	674.08
MOWER	2900.00	1500.00	20.00	6.00	300.00	0.00	0.00	1110.00	15.00	97.50
BALER	7700.00	1600.00	20.00	2.00	500.00	0.00	0.00	786.00	18.00	288.75
RAKE	3100.00	1550.00	20.00	6.00	500.00	0.00	0.00	360.00	15.00	115.25
CHISEL (BORROWED)	0.00	0.00	15.00	3.00	300.00	0.00	0.00	13.65	17.00	0.00
DISC (BORROWED)	0.00	0.00	15.00	3.00	300.00	0.00	0.00	11.56	17.00	0.00
DRILL (BORROWED)	0.00	0.00	15.00	3.00	300.00	0.00	0.00	16.00	17.00	0.00
TRUCK	26000.00	13000.00	20.00	10.00	800.00	6.86	0.05	2684.00	11.00	675.00
BALLE LOADER	3100.00	2500.00	20.00	3.00	300.00	0.00	0.00	360.00	15.00	191.25
ELECTRIC WELL	26200.00	15000.00	25.00	0.00	6742.00	0.00	0.00	4224.27	15.00	862.50

INTEREST PROPORTION

ALFALFA HAY	NATIVE GRASS
0.00	6.62
0.00	2.88
0.00	2.8
0.00	1.18
0.00	0.26
0.00	0.00
0.00	0.00
0.00	6.39
0.00	1.25
0.00	9.24
2.83	28.54

USAGE LIST

ALFALFA HAY	ALFALFA HAY	NATIVE GRASS	PER ACRE
0.00	2.10	1.40	4.12
0.00	1.11	0.74	1.85
0.00	0.63	0.42	1.05
0.00	0.36	0.24	0.60
0.00	0.00	0.00	0.00
0.00	0.00	0.00	0.00
0.00	4.50	1.60	6.10
0.00	4.5	1.6	6.1
0.00	4.02	3.02	7.04

ALFALFA ESTABLISHMENT

MACHINE	UNIT	POWER	ACCOMPLISHMENT			
			OVER	RATE	TOTAL	CUSTOM
CHISEL	40 HP	1.00	0.20	0.20		
DRILL	40 HP	1.00	0.17	0.17		
DITCH MAINTENANCE	40 HP	1.00	0.25	0.25		
IRRIGATE (K)		1.00	0.50	0.50		

ALFALFA HAY

MACHINE	UNIT	POWER	ACCOMPLISHMENT			
			OVER	RATE	TOTAL	CUSTOM
DITCH MAINTENANCE		8.00	0.50	4.02		
IRRIGATE (K)		8.00	0.50	4.02		
MOWER (GX)	40 HP	3.00	0.37	1.11		
BALER (GX)	40 HP	3.00	0.12	0.36		
BALER (GX)	40 HP	3.00	0.21	0.63		
HAY (GX)	1 TON TRUCK	3.00	1.50	4.50		

NATIVE GRASS HAY

MACHINE	UNIT	POWER	ACCOMPLISHMENT			
			OVER	RATE	TOTAL	CUSTOM
DITCH MAINTENANCE		5.00	0.50	3.02		
IRRIGATE (K)		5.00	0.50	3.02		
MOWER (GX)	40 HP	2.00	0.37	0.74		
BALER (GX)	40 HP	2.00	0.12	0.24		
BALER, 1 1/2 TON (GX)	40 HP	2.00	0.21	0.42		
HAY (GX)	1 TON TRUCK	2.00	0.80	1.60		

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
50	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
100	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
200	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
300	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
400	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
500	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
600	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
700	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
800	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
900	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000
1200	0.000045	0.000245	0.000205	0.000205	0.000405	0.000480	0.000245	0.001135	0.000770
1400	0.000045	0.000105	0.000205	0.000205	0.000405	0.000480	0.000105	0.000405	0.000285
1500	0.000150	0.000170	0.000205	0.000205	0.000405	0.000480	0.000150	0.000405	0.000285
1600	0.000150	0.000170	0.000205	0.000205	0.000405	0.000480	0.000150	0.000405	0.000285
1800	0.000075	0.000170	0.000205	0.000205	0.000405	0.000480	0.000075	0.000405	0.000285
2000	0.000115	0.000205	0.000205	0.000205	0.000405	0.000480	0.000115	0.000405	0.000285
2500	0.000056								
3000	0.000070								
3500	0.000082								
4000	0.000096								
4500	0.000109								
5000	0.000122								
5500	0.000135								
6000	0.000148								
6500	0.000161								
7000	0.000174								
7500	0.000188								
8000	0.000204								

* Based on unpublished tests of D. R. Hunt, Department of Agricultural Engineering, University of Illinois.

** Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1983.

Codes

- 1 hitches
- 2 balers, combines, forage harvesters, windrowers, pickers
- 3 rotary hoe, disks, middling plows, chisels, field cultivators
- 4 harrows, weepers, blades, rakes, roller, drag, roller, water furrow, bed shaper
- 5 balers/pickers, cotton pickers, cotton strippers, corn pickers
- 6 corn heads, forage equipment, rotary mowers, disk choppers, feed wagons, farm trucks
- 6a chisels, cultivator chisels
- 7 baler w/ engine, manure spreader
- 8 plows, rills, weeding equipment, mounted sprayers
- 9 fertilizer distributing equipment

TABLE 6. Alfalfa establishment, flood-irrigated, budgeted per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2009.
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
PURCHASED INPUTS								
SEED	\$4.00	18 LBS	\$72.00					\$72.00
CANAL WATER		5 AC. IN.						
SUBTOTAL			\$72.00					\$72.00
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	40 HP	0.20 HR		\$1.71	\$2.09	\$0.22	\$0.60	\$4.62
DISC	40 HP	0.17 HR		\$1.45	\$1.78	\$0.18	\$0.51	\$3.92
DRILL	40 HP	0.25 HR		\$2.14	\$2.62	\$0.27	\$0.75	\$5.77
DITCH MAINTENANCE		0.50 HR		\$4.28				\$4.28
IRRIGATE (1X)		0.75 HR		\$5.44				\$5.44
SUBTOTAL		1.87 HR		\$15.01	\$6.49	\$0.67	\$1.85	\$24.03
OVERHEAD EXPENSES								
DOWNTIME		0.16 HR		\$1.33				\$1.33
EMPLOYEE BENEFITS				\$2.70				\$2.70
INSURANCE			\$0.30					\$0.30
SUPERVISION AND MANAGEMENT				\$7.78				\$7.78
SUBTOTAL		0.16 HR	\$0.30	\$11.81				\$12.11
TOTAL OPERATING EXPENSES		2.03 HR	\$72.30	\$26.82	\$6.49	\$0.67	\$1.85	\$108.14

TABLE 7. Alfalfa hay, flood-irrigated, budgeted per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2009.
Harvesting dates: May 15 - September 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALFFA HAY	\$140.00	4.00 TONS (STACKED)	\$560.00
GRAZING	\$15.00	1.00 ACRE	\$15.00
TOTAL			\$575.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
LIVESTOCK FAC & EQUIP ESTABLISHMENT: Principal		10.00 YEARS		\$4.00	\$4.00
: Interest				\$10.81	\$10.81
BALING WIRE	\$0.55	34.28 LBS	\$18.85	\$4.86	\$4.86
CANAL WATER		16.00 AC. IN.	\$5.00		\$18.85
PUMP WATER*		8.00 AC. IN.			\$5.00
SUBTOTAL			\$23.85	\$19.67	\$43.52

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DITCH MAINTENANCE		0.50 HR		\$4.28				\$4.28
IRRIGATE (8X)		4.00 HR		\$29.00	\$5.75	\$0.00	\$14.35	\$49.10
SUBTOTAL		4.50 HR		\$33.28	\$5.75	\$0.00	\$14.35	\$53.37

HARVEST OPERATIONS								
MOWER (3X)	40 HP	1.11 HR		\$9.49	\$11.62	\$1.60	\$5.41	\$28.12
RAKE (3X)	40 HP	0.36 HR		\$3.08	\$3.77	\$0.54	\$3.57	\$10.96
BALER (3X)	40 HP	0.63 HR		\$5.39	\$6.60	\$0.78	\$8.08	\$20.84
HAUL (3X)	1 TON TRUCK	4.50 HR		\$38.48	\$80.04	\$37.46	\$54.76	\$210.74
SUBTOTAL		6.60 HR		\$56.43	\$102.03	\$40.38	\$71.82	\$270.66

OVERHEAD EXPENSES								
DOWNTIME		1.65 HR		\$14.11				\$14.11
EMPLOYEE BENEFITS				\$16.15				\$16.15
INSURANCE			\$1.79					\$1.79
LAND TAXES							\$0.20	\$0.20
SUPERVISION AND MANAGEMENT				\$47.55				\$47.55
OTHER EXPENSES			\$220.12					\$220.12
SUBTOTAL		1.65 HR	\$221.91	\$77.80			\$0.20	\$299.91

TOTAL OPERATING EXPENSES 12.75 HR \$245.77 \$167.51 \$107.78 \$40.38 \$106.03 \$667.47

NET OPERATING PROFIT (\$92.47)

INTEREST ON OPERATING CAPITAL (\$25.23 @ 7.50%) \$1.89
INTEREST ON EQUIPMENT INVESTMENT \$2.93

RETURN TO LAND AND RISK (\$97.30)

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

BUDGET SUMMARY

GROSS RETURN		\$575.00	
VARIABLE OPERATING EXPENSES	\$393.93		
RETURN OVER VARIABLE EXPENSES		\$181.07	(GROSS MARGIN)
FIXED EXPENSES	\$106.03		
NET FARM INCOME		\$75.04	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$167.51		
NET OPERATING PROFIT		(\$92.47)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$4.83		
RETURN TO LAND AND RISK		(\$97.30)	

TABLE 8. Native grass hay, flood-irrigated, budgeted per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2009.
Harvesting dates: July 20 - September 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
HAY	\$125.00	1.50 TONS (STACKED)	\$187.50
GRAZING	\$13.00	1.00 ACRE	\$13.00
TOTAL			\$200.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
LIVESTOCK FAC & EQUIP				\$4.00	\$4.00
BALING WIRE	\$0.55	13 LBS	\$7.07		\$7.07
CANAL WATER		12 AC. IN.	\$5.00		\$5.00
PUMP WATER*		6 AC. IN.			
SUBTOTAL			\$12.07	\$4.00	\$16.07

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DITCH MAINTENANCE		0.50 HR			\$4.28			\$4.28
IRRIGATE (5X)		2.50 HR		\$21.38	\$4.31	\$0.00	\$10.76	\$36.45
SUBTOTAL		3.00 HR		\$25.65	\$4.31	\$0.00	\$10.76	\$40.72

HARVEST OPERATIONS								
MOWER (2X)	40 HP	0.74 HR		\$6.33	\$7.75	\$1.07	\$3.61	\$18.75
RAKE (2X)	40 HP	0.24 HR		\$2.05	\$2.51	\$0.36	\$2.38	\$7.31
BALER, 1-TON (2X)	40 HP	0.42 HR		\$3.59	\$4.40	\$0.52	\$5.39	\$13.89
HAUL (2X)	TRUCK	1.60 HR		\$13.68	\$28.46	\$13.32	\$19.47	\$74.93
SUBTOTAL		3.00 HR	\$0.00	\$25.65	\$43.12	\$15.27	\$30.84	\$114.88

OVERHEAD EXPENSES								
DOWNTIME		0.75 HR		\$6.41				\$6.41
EMPLOYEE BENEFITS				\$9.23				\$9.23
INSURANCE			\$1.03					\$1.03
LAND TAXES							\$0.20	\$0.20
SUPERVISION AND MANAGEMENT				\$15.54				\$15.54
OTHER EXPENSES			\$220.12					\$220.12
SUBTOTAL		0.75 HR	\$221.14	\$31.18			\$0.20	\$252.52

TOTAL OPERATING EXPENSES		3.75 HR	\$233.21	\$82.48	\$47.43	\$15.27	\$45.80	\$424.20
---------------------------------	--	----------------	-----------------	----------------	----------------	----------------	----------------	-----------------

NET OPERATING PROFIT (\$223.70)

INTEREST ON OPERATING CAPITAL	(\$11.98	@	7.50%)	\$0.90
INTEREST ON EQUIPMENT INVESTMENT						\$28.54

RETURN TO LAND AND RISK (\$253.13)

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

BUDGET SUMMARY

GROSS RETURN		\$200.50	
VARIABLE OPERATING EXPENSES	\$295.91		
RETURN OVER VARIABLE EXPENSES		(\$95.41)	(GROSS MARGIN)
FIXED EXPENSES	\$45.80		
NET FARM INCOME		(\$141.22)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$82.48		
NET OPERATING PROFIT		(\$223.70)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$29.43		
RETURN TO LAND AND RISK		(\$253.13)	

TABLE 9. Summary of per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2009.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	NATIVE GRASS HAY
		TONS	TONS
PRIMARY YIELD		4.00	1.50
PRIMARY PRICE		\$140.00	\$125.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00
SECOND INCOME		\$15.00	\$13.00
GROSS RETURN		\$575.00	\$200.50
CASH OPERATING EXPENSES			
SEED	\$72.00		
FERTILIZER			
CHEMICALS			
CROP INSURANCE			
OTHER PURCHASED INPUTS		\$18.85	\$7.07
CANAL WATER		\$5.00	\$5.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.49	\$102.03	\$43.12
FUEL-IRRIGATION		\$5.75	\$4.31
REPAIRS	\$0.67	\$40.38	\$15.27
CUSTOM CHARGES			
LAND TAXES		\$0.20	\$0.20
OTHER EXPENSES	\$0.30	\$221.91	\$221.14
TOTAL CASH EXPENSES	\$79.46	\$394.13	\$296.11
RETURN OVER CASH EXPENSES	(\$79.46)	\$180.87	(\$95.61)
FIXED EXPENSES	\$1.85	\$105.84	\$45.60
TOTAL EXPENSES	\$81.31	\$499.96	\$341.72
NET FARM INCOME	(\$81.31)	\$75.04	(\$141.22)
LABOR AND MANAGEMENT COSTS	\$26.82	\$167.51	\$82.48
NET OPERATING PROFIT	(\$108.14)	(\$92.47)	(\$223.70)
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL		\$1.89	\$0.90
INTEREST ON EQUIPMENT INVESTMENT		\$2.93	\$28.54
TOTAL CAPITAL COSTS	\$0.00	\$4.83	\$29.43
RETURN TO LAND AND RISK	(\$108.14)	(\$97.30)	(\$253.13)

TABLE 10. Whole farm summary, Union County,
Projected 2009.

GROSS RETURNS		
ALFALFA HAY	40 ACRES	
CROP		\$22,400
GRAZING		\$600
NATIVE GRASS HAY	40 ACRES	
CROP		\$7,500
GRAZING		\$520
GROSS RETURN		<u>\$31,020</u>
CASH OPERATING EXPENSES		
SEED		\$288
FERTILIZER		\$0
CHEMICALS		\$0
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$1,037
CANAL WATER		\$400
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$5,832
FUEL-IRRIGATION		\$402
REPAIRS		\$2,229
CUSTOM CHARGES		\$0
LAND TAXES		\$16
OTHER EXPENSES		\$17,723
TOTAL CASH EXPENSES		<u>\$27,927</u>
RETURN OVER CASH EXPENSES		\$3,093
FIXED EXPENSES		\$5,632
TOTAL EXPENSES		\$33,560
NET FARM INCOME		(\$2,540)
LABOR AND MANAGEMENT COSTS		\$10,107
NET OPERATING PROFIT		(\$12,647)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$112
INTEREST ON EQUIPMENT INVESTMENT		\$1,259
TOTAL CAPITAL COSTS		<u>\$1,370</u>
RETURN TO LAND AND RISK		<u>(\$14,017)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$200 /ACRE	(\$14,497)	-23.25%
\$350 /ACRE	(\$14,857)	-19.05%
\$500 /ACRE	(\$15,217)	-16.13%

* 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)