

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... DRY CIMARRON AREA, UNION COUNTY Projected 2011.
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 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 2011.

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 2011.

Item			
Labor Wage Rate:			
Equipment operators	\$/hour		\$8.55
General & Irrigators	\$/hour		\$7.25
Purchased Inputs:			
Seed:			
Alfalfa	\$/pound		\$3.30
Natural gas	\$/MCF		\$3.75
Diesel fuel	\$/gallon		\$2.95
Gasoline	\$/gallon		\$3.05
Electricity	cents/KwHr		7.38
LP Gas	\$/gallon		\$2.40
Baling Wire	\$/pound		\$0.61
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		7.00%
Land Interest Rate	percent		6.00%
Equipment Interest Rate	percent		7.00%
Real Interest Rate	percent		3.00%
Land Taxes	\$27.00 /acre (full value)		\$0.24
Personal Property Tax Rate	-NR - R	\$/ \$1,000 (Assessed Value)	\$26.91 \$24.79
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 2011.

Item			
Electricity (Domestic & Shop)		\$121.00 per month	\$1,452
Telephone		\$96.80 per month	\$1,162
Accounting & Legal			\$545
Misc. Supplies & Hand Tools			\$895
Pickup and Auto			
miles	12,463	@ \$0.50 per mile	\$6,232
Insurance			
- general liability (non-employee)			\$1,162
- fire/theft			\$756
Property Taxes			
- other than land & machinery			\$6,010
Building repairs and maintenance			\$575
Dues, fees, publications			\$290
Farmstead Equipment			\$91
		Total	\$19,169
		Total per planted acre	\$239.61

TABLE 4. Puroine costs and data for irrigation wells. Dr. Cameron area, Union County. Prepared 2011.

DEPTH CHARACTERISTICS:	
STATIC:	80
DRY BURN:	85
TOTAL HEAD:	85
CAPAC:	85
GALLONS PER MINUTE (GPM)	
WORKHORSEPOWER:	10
EFFICIENCY FACTOR:	
ELECTRICITY:	0.940
NATURAL GAS:	0.154
LP GAS:	0.154
DIESEL:	0.150
FUEL COST PER UNIT:	
ELECTRICITY:	1.38 CENTS/KWH
NATURAL GAS:	\$3.75 SMCY
LP GAS:	\$2.45 SGL
DIESEL:	\$2.95 SGL
FUEL PUMPING COSTS	
ELECTRIC WELL:	
COST PER HOUR:	\$1.54
COST PER ACRE INCH:	\$0.77
NATURAL GAS WELL:	
COST PER HOUR:	\$1.03
COST PER ACRE INCH:	\$0.52
LP GAS WELL:	
COST PER HOUR:	\$0.40
COST PER ACRE INCH:	\$0.22
DIESEL WELL:	
COST PER HOUR:	\$4.21
COST PER ACRE INCH:	\$2.17

TABLE 5. Equipment summary for an 80-acre east-line field-irrigated farm. Dr. Cameron area, Union County. Prepared 2011.

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		TOTAL PER HR
				FUEL OIL LUBRICANT	REPAIR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	
TRACTOR	40 HP	142	\$6,911	\$1,572	\$154	\$11.03	\$1.08	\$300	\$91	\$3.09
MOWER	74	1	\$1,300	\$27	\$27	\$2.36	\$0.20	\$12	\$12	\$1.61
BALE	5/8	1	\$1,000	\$6	\$6	\$1.15	\$0.05	\$35	\$35	\$2.59
RACE	2 WRE	24	\$1,500	\$10	\$10	\$4.45	\$0.20	\$195	\$14	\$7.04
CHISEL DISC/HORNED	12 FT	1	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0.00
DISC/HORNED	12 FT	1	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0.00
DRILL HORNED	12 FT	1	\$0	\$0	\$0	\$0.00	\$0.00	\$0	\$0	\$0.00
TRUCK	2.5 TON	244	\$11,500	\$4,573	\$2,028	\$18.74	\$6.31	\$2,700	\$121	\$11.55
BALE LOADER	244	1	\$2,000	\$568	\$568	\$20	\$20	\$200	\$20	\$11.14
ELECTRIC WELL	282	1	\$11,500	\$433	\$0	\$1.54	\$0.00	\$300	\$103	\$3.03
			\$38,911	\$6,578	\$2,951			\$4,935	\$308	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP. LIFE	MAX. HOURS	FUEL UNIT/HR	LUBE COEF	ACCU. HOURS	AGE	INTEREST EXPENSE	
TRACTOR	40 HP	17975.00	6911.00	20.00	1.00	800.00	3.40	0.10	2137.20	15.00	629.13
MOWER	74	2000.00	1300.00	20.00	6.00	300.00	0.00	0.00	1150.00	15.00	91.00
BALE	5/8	7700.00	1000.00	20.00	2.00	500.00	0.00	0.00	390.00	18.00	288.50
RACE	2 WRE	11000.00	1050.00	20.00	6.00	500.00	0.00	0.00	760.00	18.00	195.20
CHISEL DISC/HORNED	12 FT	0.00	0.00	10.00	3.00	300.00	0.00	0.00	1.00	17.00	0.00
DISC/HORNED	12 FT	0.00	0.00	10.00	3.00	300.00	0.00	0.00	1.00	17.00	0.00
DRILL HORNED	12 FT	0.00	0.00	10.00	3.00	300.00	0.00	0.00	1.00	17.00	0.00
TRUCK	2.5 TON	27000.00	13500.00	10.00	5.00	800.00	6.00	0.05	2684.00	11.00	945.00
BALE LOADER	244	11000.00	2000.00	20.00	3.00	300.00	0.00	0.00	1000.00	15.00	170.50
ELECTRIC WELL	282	23000.00	11500.00	20.00	0.00	6742.00	0.00	0.00	4224.27	15.00	805.00

USAGE LIST

ALFALFA ESTABLISHMENT	ACRES	4	PUMP WATER		
POWER	TIMES	ACCOMPLISHMENT			
MACHINE	UNIT	OVER	RATE	TOTAL	CUSTOM
CHISEL	40 HP	1.00	0.30	0.30	
DRILL	40 HP	1.00	0.17	0.17	
DITCH MAINTENANCE					0.5
IRRIGATE (10)		1.00	0.50	0.50	

INTEREST PRODUCTION

ALFALFA	NATIVE
GRASS	GRASS
PER ACRE	PER ACRE
2.74	6.16
0.00	0.91
0.00	2.70
0.00	1.28
0.00	0.00
0.00	0.00
0.00	0.00
0.00	6.20
0.00	1.17
0.00	8.62
2.74	26.80

ALFALFA HAY

ALFALFA HAY	ACRES	40	PUMP WATER	6.00	
POWER	TIMES	ACCOMPLISHMENT			
MACHINE	UNIT	OVER	RATE	TOTAL	CUSTOM
DITCH MAINTENANCE					0.5
IRRIGATE (8)		8.00	0.50	4.00	

NATIVE GRASS HAY

NATIVE GRASS HAY	ACRES	40	PUMP WATER	6.00	
POWER	TIMES	ACCOMPLISHMENT			
MACHINE	UNIT	OVER	RATE	TOTAL	CUSTOM
DITCH MAINTENANCE					0.5
IRRIGATE (8)		5.00	0.50	2.50	
MOWER (2)	40 HP	2.00	0.37	0.74	
RACE (2)	40 HP	2.00	0.12	0.24	
BALE (1)	40 HP	2.00	0.21	0.42	
HALE (2)	1 TON TRAIL	2.00	1.50	3.00	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
50	0.00080	0.00020	0.00020	0.00080	0.00140	0.00040	0.00040	0.00040	0.00020
100	0.00080	0.00020	0.00020	0.00080	0.00140	0.00040	0.00040	0.00040	0.00020
200	0.00080	0.00020	0.00040	0.00040	0.00180	0.00080	0.00110	0.00010	0.00080
300	0.00080	0.00020	0.00040	0.00080	0.00080	0.00140	0.00140	0.00010	0.00040
400	0.00080	0.00020	0.00070	0.00080	0.00080	0.00140	0.00110	0.00070	0.00040
500	0.00080	0.00020	0.00070	0.00080	0.00080	0.00140	0.00110	0.00080	0.00040
600	0.00080	0.00020	0.00040	0.00120	0.00030	0.00080	0.00110	0.00080	0.00030
700	0.00080	0.00020	0.00040	0.00080	0.00030	0.00040	0.00110	0.00020	0.00080
800	0.00080	0.00020	0.00020	0.00080	0.00030	0.00040	0.00110	0.00080	0.00080
900	0.00080	0.00020	0.00020	0.00080	0.00030	0.00040	0.00110	0.00080	0.00080
1000	0.00080	0.00020	0.00020	0.00080	0.00040	0.00040	0.00110	0.00020	0.00080
1200	0.00040	0.00040	0.00020	0.00040	0.00040	0.00040	0.00110	0.00110	0.00010
1400	0.00040	0.00070	0.00020	0.00040	0.00040	0.00070	0.00110	0.00110	0.00010
1600	0.00010	0.00070	0.00030	0.00030	0.00040	0.00040	0.00110	0.00110	0.00010
1800	0.00010	0.00070	0.00020	0.00040	0.00040	0.00040	0.00110	0.00110	0.00010
2000	0.00010	0.00020	0.00020	0.00040	0.00040	0.00040	0.00110	0.00110	0.00010
2500	0.00050								
3000	0.00070								
4000	0.00080								
5000	0.00100								
6000	0.00110								
7000	0.00110								
8000	0.00110								
9000	0.00110								

* Based on unpublished data of D. R. Hurd, Department of Agricultural Engineers, University of Illinois.

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

Codes

- 1 tractors
- 2 balers, combine harvesters, forage harvesters, windrowers, pickers
- 3 mowers, law, disks, moldboard plows, chisels, field cultivators
- 4 row cultivators, weed chasers
- 5 harrows, weepers, flails, rakes, roller, water furrows, bed chasers
- 6 balers, cotton pickers, cotton strippers, corn pickers
- 7 head mowers, south mowers
- 8 head mowers, north mowers
- 9 mowers, mowers, rotary mowers, rotary mowers, mowers, disk chisels
- 10 mowers, rotary mowers, rotary mowers
- 11 mowers, rotary mowers, rotary mowers
- 12 mowers, rotary mowers, rotary mowers
- 13 mowers, rotary mowers, rotary mowers
- 14 mowers, rotary mowers, rotary mowers
- 15 mowers, rotary mowers, rotary mowers
- 16 mowers, rotary mowers, rotary mowers
- 17 mowers, rotary mowers, rotary mowers
- 18 mowers, rotary mowers, rotary mowers
- 19 mowers, rotary mowers, rotary mowers
- 20 mowers, rotary mowers, rotary mowers

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 2011.
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
PURCHASED INPUTS									
SEED	\$3.30	18 LBS		\$59.40					\$59.40
CANAL WATER		5 AC. IN.							
SUBTOTAL				\$59.40					\$59.40
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
CHISEL	40 HP	0.20 HR		\$1.71	\$2.21	\$0.22	\$0.62	\$4.75	
DISC	40 HP	0.17 HR		\$1.45	\$1.88	\$0.18	\$0.53	\$4.04	
DRILL	40 HP	0.25 HR		\$2.14	\$2.76	\$0.27	\$0.77	\$5.94	
DITCH MAINTENANCE		0.50 HR		\$4.28				\$4.28	
IRRIGATE (1X)		0.75 HR		\$5.44				\$5.44	
SUBTOTAL		1.87 HR		\$15.01	\$6.84	\$0.67	\$1.92	\$24.44	
OVERHEAD EXPENSES									
DOWNTIME		0.16 HR		\$1.33				\$1.33	
EMPLOYEE BENEFITS				\$2.70				\$2.70	
INSURANCE			\$0.30	\$6.93				\$0.30	
SUPERVISION AND MANAGEMENT								\$6.93	
SUBTOTAL		0.16 HR	\$0.30	\$10.96				\$11.26	
TOTAL OPERATING EXPENSES		2.03 HR	\$59.70	\$25.97	\$6.84	\$0.67	\$1.92	\$95.09	

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 2011.
Harvesting dates: May 15 - September 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	\$165.00	4.00 TONS (STACKED)						\$660.00
GRAZING	\$15.00	1.00 ACRE						\$15.00
TOTAL							\$675.00	
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
LIVESTOCK FAC & EQUIP ESTABLISHMENT: Principal		10.00 YEARS					\$4.00	\$4.00
: Interest							\$9.51	\$9.51
BALING WIRE	\$0.61	34.28 LBS	\$20.91				\$3.95	\$3.95
CANAL WATER		16.00 AC. IN.	\$5.00					\$20.91
PUMP WATER*		8.00 AC. IN.						\$5.00
SUBTOTAL			\$25.91				\$17.46	\$43.37
PREHARVEST OPERATIONS								
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	\$6.19	\$0.00	\$14.62	\$49.80
SUBTOTAL		4.50 HR		\$33.28	\$6.19	\$0.00	\$14.62	\$54.08
HARVEST OPERATIONS								
MOWER (3X)	40 HP	1.11 HR		\$9.49	\$12.25	\$1.60	\$5.55	\$28.89
RAKE (3X)	40 HP	0.36 HR		\$3.08	\$3.97	\$0.54	\$3.65	\$11.24
BALER (3X)	40 HP	0.63 HR		\$5.39	\$6.95	\$0.78	\$8.24	\$21.35
HAUL (3X)	1 TON TRUCK	4.50 HR		\$38.48	\$84.33	\$37.46	\$57.15	\$217.42
SUBTOTAL		6.60 HR		\$56.43	\$107.50	\$40.38	\$74.59	\$278.90
OVERHEAD EXPENSES								
DOWNTIME		1.65 HR		\$14.11				\$14.11
EMPLOYEE BENEFITS				\$16.15				\$16.15
INSURANCE			\$1.79					\$1.79
LAND TAXES						\$0.24		\$0.24
SUPERVISION AND MANAGEMENT				\$54.55				\$54.55
OTHER EXPENSES			\$239.61					\$239.61
SUBTOTAL		1.65 HR	\$241.40	\$84.80			\$0.24	\$326.45
TOTAL OPERATING EXPENSES		12.75 HR	\$267.31	\$174.51	\$113.69	\$40.38	\$106.91	\$702.80
NET OPERATING PROFIT							(\$27.80)	
INTEREST ON OPERATING CAPITAL		(\$26.83 @ 7.00%)					\$1.88	
INTEREST ON EQUIPMENT INVESTMENT							\$2.74	
RETURN TO LAND AND RISK							(\$32.41)	

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

BUDGET SUMMARY

GROSS RETURN		\$675.00	
VARIABLE OPERATING EXPENSES	\$421.38		
RETURN OVER VARIABLE EXPENSES	\$253.62	(GROSS MARGIN)	
FIXED EXPENSES	\$106.91		
NET FARM INCOME	\$146.71	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$174.51		
NET OPERATING PROFIT	(\$27.80)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$4.62		
RETURN TO LAND AND RISK	(\$32.41)		

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 2011.
Harvesting dates: July 20 - September 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
HAY	\$150.00	1.50 TONS (STACKED)						\$225.00
GRAZING	\$13.00	1.00 ACRE						\$13.00
TOTAL								\$238.00
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
LIVESTOCK FAC & EQUIP							\$4.00	\$4.00
BALING WIRE	\$0.61	13 LBS	\$7.84					\$7.84
CANAL WATER		12 AC. IN.	\$5.00					\$5.00
PUMP WATER*		6 AC. IN.						
SUBTOTAL			\$12.84				\$4.00	\$16.84
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	\$4.64	\$0.00	\$10.96	\$36.98
SUBTOTAL			3.00 HR	\$25.65	\$4.64	\$0.00	\$10.96	\$41.25
HARVEST OPERATIONS								
MOWER (2X)	40 HP	0.74 HR		\$6.33	\$8.16	\$1.07	\$3.70	\$19.26
RAKE (2X)	40 HP	0.24 HR		\$2.05	\$2.65	\$0.36	\$2.43	\$7.49
BALER, 1-TON (2X)	40 HP	0.42 HR		\$3.59	\$4.63	\$0.52	\$5.49	\$14.24
HAUL (2X)	TRUCK	1.60 HR		\$13.68	\$29.98	\$13.32	\$20.32	\$77.30
SUBTOTAL			3.00 HR	\$0.00	\$45.43	\$15.27	\$31.95	\$118.29
OVERHEAD EXPENSES								
DOWNTIME		0.75 HR		\$6.41				\$6.41
EMPLOYEE BENEFITS				\$9.23				\$9.23
INSURANCE			\$1.03					\$1.03
LAND TAXES							\$0.24	\$0.24
SUPERVISION AND MANAGEMENT				\$18.16				\$18.16
OTHER EXPENSES			\$239.61					\$239.61
SUBTOTAL			0.75 HR	\$240.64	\$33.81		\$0.24	\$274.68
TOTAL OPERATING EXPENSES			3.75 HR	\$253.48	\$85.11	\$50.07	\$15.27	\$451.07
NET OPERATING PROFIT								(\$213.07)
INTEREST ON OPERATING CAPITAL		(\$12.64	@	7.00%)		\$0.88
INTEREST ON EQUIPMENT INVESTMENT								\$26.86
RETURN TO LAND AND RISK								(\$240.82)

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

BUDGET SUMMARY

GROSS RETURN		\$238.00	
VARIABLE OPERATING EXPENSES	\$318.81		
RETURN OVER VARIABLE EXPENSES		(\$80.81)	(GROSS MARGIN)
FIXED EXPENSES	\$47.15		
NET FARM INCOME		(\$127.97)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$85.11		
NET OPERATING PROFIT		(\$213.07)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$27.75		
RETURN TO LAND AND RISK		(\$240.82)	

TABLE 9. Summary of per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2011.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	NATIVE GRASS HAY
		TONS	TONS
PRIMARY YIELD		4.00	1.50
PRIMARY PRICE		\$165.00	\$150.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00
SECOND INCOME		\$15.00	\$13.00
GROSS RETURN		\$675.00	\$238.00
CASH OPERATING EXPENSES			
SEED	\$59.40		
FERTILIZER			
CHEMICALS			
CROP INSURANCE			
OTHER PURCHASED INPUTS		\$20.91	\$7.84
CANAL WATER		\$5.00	\$5.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.84	\$107.50	\$45.43
FUEL-IRRIGATION		\$6.19	\$4.64
REPAIRS	\$0.67	\$40.38	\$15.27
CUSTOM CHARGES			
LAND TAXES		\$0.24	\$0.24
OTHER EXPENSES	\$0.30	\$241.40	\$240.64
TOTAL CASH EXPENSES	\$67.21	\$421.62	\$319.06
RETURN OVER CASH EXPENSES	(\$67.21)	\$253.38	(\$81.06)
FIXED EXPENSES	\$1.92	\$106.67	\$46.91
TOTAL EXPENSES	\$69.12	\$528.29	\$365.97
NET FARM INCOME	(\$69.12)	\$146.71	(\$127.97)
LABOR AND MANAGEMENT COSTS	\$25.97	\$174.51	\$85.11
NET OPERATING PROFIT	(\$95.09)	(\$27.80)	(\$213.07)
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL		\$1.88	\$0.88
INTEREST ON EQUIPMENT INVESTMENT		\$2.74	\$26.86
TOTAL CAPITAL COSTS	\$0.00	\$4.62	\$27.75
RETURN TO LAND AND RISK	(\$95.09)	(\$32.41)	(\$240.82)

TABLE 10. Whole farm summary, Union County,
Projected 2011.

GROSS RETURNS		
ALFALFA HAY	40 ACRES	
CROP		\$26,400
GRAZING		\$600
NATIVE GRASS HAY	40 ACRES	
CROP		\$9,000
GRAZING		\$520
GROSS RETURN		\$36,520
CASH OPERATING EXPENSES		
SEED		\$238
FERTILIZER		\$0
CHEMICALS		\$0
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$1,150
CANAL WATER		\$400
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$6,145
FUEL-IRRIGATION		\$433
REPAIRS		\$2,229
CUSTOM CHARGES		\$0
LAND TAXES		\$19
OTHER EXPENSES		\$19,283
TOTAL CASH EXPENSES		\$29,896
RETURN OVER CASH EXPENSES		\$6,624
FIXED EXPENSES		\$5,770
TOTAL EXPENSES		\$35,666
NET FARM INCOME		\$854
LABOR AND MANAGEMENT COSTS		\$10,489
NET OPERATING PROFIT		(\$9,635)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$111
INTEREST ON EQUIPMENT INVESTMENT		\$1,184
TOTAL CAPITAL COSTS		\$1,295
RETURN TO LAND AND RISK		(\$10,929)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$200 /ACRE	(\$11,409)	-17.55%
\$350 /ACRE	(\$11,769)	-14.40%
\$500 /ACRE	(\$12,129)	-12.21%

* 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)