

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... DRY CIMARRON AREA, UNION COUN' Projected 2018
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 2018

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 2018

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$8.55
General & Irrigators	\$/hour	\$7.50
Purchased Inputs:		
Seed:		
Alfalfa	\$/pound	\$4.00
Natural gas	\$/MCF	\$4.00
Diesel fuel	\$/gallon	\$2.70
Gasoline	\$/gallon	\$2.40
Electricity	cents/Kw-Hr	7.94
LP Gas	\$/gallon	\$2.85
Baling Wire	\$/pound	\$1.32
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	5.50%
Land Interest Rate	percent	5.00%
Equipment Interest Rate	percent	5.50%
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) \$22.35 \$19.20
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 2018

Item			
Electricity (Domestic & Shop)		\$127.00 per month	\$1,524
Telephone		\$101.60 per month	\$1,219
Accounting & Legal			\$572
Misc. Supplies & Hand Tools			\$940
Pickup and Auto			
miles	13,081	@ \$0.500 per mile	\$6,541
Insurance			
- general liability (non-employee)			\$1,219
- fire/theft			\$794
Property Taxes			
- other than land & machinery			\$6,010
Building repairs and maintenance			\$603
Dues, fees, publications			\$305
Farmstead Equipment			\$95
Total			\$19,821
Total per planted acre			\$247.77

TABLE 4. Pumping costs and data for irrigation wells, Dry Cimarron area, Union County, February 2014

INPUT DATA		DEPTH CHARACTERISTICS	
		STATIC	50
		DRAW DOWN	15
		TOTAL HEAD	65
		CASING	75
GALLONS PER MINUTE (GPM)	900		
WORM HORSEPOWER	15		
EFFICIENCY FACTOR			
ELECTRICITY	0.540		
NATURAL GAS	0.154		
LP GAS	0.154		
DIESEL	0.160		
FUEL COST PER UNIT			
ELECTRICITY	7.94	CENTS/KWH	
NATURAL GAS	\$0.90	\$/CCF	
LP GAS	\$2.80	\$/GAL	
DIESEL	\$2.70	\$/GAL	
FUEL PUMPING COSTS			
ELECTRIC WELL			
COST PER HOUR	\$1.65		
COST PER ACRE INCH	\$0.63		
NATURAL GAS WELL			
COST PER HOUR	\$1.10		
COST PER ACRE INCH	\$0.26		
LP GAS WELL			
COST PER HOUR	\$1.60		
COST PER ACRE INCH	\$0.62		
DIESEL WELL			
COST PER HOUR	\$4.35		
COST PER ACRE INCH	\$1.25		

TABLE 5. Equipment summary for an 80-acre part-time food-entangled farm, Dry Cimarron area, Union County, February 2014

EQUIPMENT	ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS			FIXED COSTS			
					FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL, REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	40 HP	142	1	\$7,200	\$1,439	\$154	\$10.10	\$1.69	\$300	\$67	\$2.99
MOWER	40 HP	74	1	\$1,200	\$27	\$27	\$0.26	\$1.20	\$10	\$10	\$1.90
BALER	2 WIRE	42	1	\$1,600	\$6	\$6	\$0.15	\$3.05	\$25	\$25	\$6.85
RAGE	24	1	\$1,050	\$10	\$10	\$0.43	\$105	\$15	\$15	\$6.94	
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	
CHISEL (BORROWED)	10 FT	1	1	\$0	\$0	\$0	\$0.00	\$0	\$0	\$0.00	
DISC (BORROWED)	12 FT	1	1	\$13,500	\$4,165	\$2,028	\$17.15	\$8.31	\$2,700	\$101	\$11.46
TRUCK	2.5 TON	244	1	\$2,500	\$160	\$160	\$0.65	\$2.00	\$205	\$19	\$1.12
BALE LENDER	282	1	\$11,000	\$465	\$0	\$1.65	\$0.00	\$200	\$86	\$3.57	
ELECTRIC WELL											
				\$30,000	\$6,083	\$2,391			\$4,900	\$302	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP CODE	MAX LUBE	FUEL LUBE	ACCUA	AGG	INTEREST	
TRACTOR	40 HP	7200.00	20.00	1.00	800.00	3.40	0.10	2127.20	10.50	494.31
MOWER	40 HP	1200.00	20.00	6.00	300.00	0.00	0.00	1110.00	15.00	71.50
BALER	2 WIRE	1600.00	20.00	3.00	500.00	0.00	0.00	760.00	18.00	211.75
RAGE	24	1050.00	20.00	6.00	500.00	0.00	0.00	360.00	15.00	85.25
CHISEL (BORROWED)	7 FT	0.00	0.00	10.00	200.00	0.00	0.00	12.00	17.00	0.00
DISC (BORROWED)	12 FT	0.00	0.00	15.00	300.00	0.00	0.00	11.00	17.00	0.00
CHISEL (BORROWED)	10 FT	0.00	0.00	10.00	200.00	0.00	0.00	16.00	16.00	0.00
DISC (BORROWED)	12 FT	0.00	0.00	10.00	300.00	0.00	0.00	2884.00	11.00	742.50
TRUCK	2.5 TON	2500.00	20.00	3.00	200.00	0.00	0.00	2600.00	15.00	146.25
BALE LENDER	282	11000.00	25.00	0.00	8742.00	0.00	0.00	4224.27	15.00	632.00
ELECTRIC WELL										

USAGE LIST

ALPACALP	ALPACALP	NATIVE	PER ACRE
0.00	2.10	1.40	4.13
0.00	1.11	0.74	1.85
0.00	0.83	0.42	1.01
0.00	0.36	0.24	0.60
0.00	0.00	0.00	0.00
0.17	0.00	0.00	0.17
0.00	0.00	0.00	0.00
0.00	4.20	1.90	6.10
0.00	4.2	1.6	6.10
0.00	4.02	3.02	7.04

INTEREST PROXATION

ALPACALP	NATIVE	PER ACRE
2.15	4.86	
0.00	0.72	
0.00	2.12	
0.00	0.85	
0.00	0.00	
0.00	0.00	
0.00	4.87	
0.00	1.82	
0.00	6.78	

ALPACALP ESTABLISHMENT

MACHINE	POWER	TIMES	OVER	RATE	TOTAL	CUSTOM
CHISEL	40HP	1.00	0.25	0.20		
DISC	40HP	1.00	0.25	0.17		
DRILL	40HP	1.00	0.25	0.25		
DITCH MAINTENANCE						0.5
BIRGATE (1X)			1.00	0.00	0.00	

NATIVE GRASS HAY

MACHINE	POWER	TIMES	OVER	RATE	TOTAL	CUSTOM
DITCH MAINTENANCE						0.5
BIRGATE (5X)			5.00	0.00	4.00	

ALPACALP ESTABLISHMENT

MACHINE	POWER	TIMES	OVER	RATE	TOTAL	CUSTOM
MOWER (2X)	40HP	3.00	0.37	1.11		
RAGE (2X)	40HP	3.00	0.12	0.36		
BALER (2X)	40HP	3.00	0.21	0.63		
HALL (2X)	1 TON TRUCK	3.00	1.00	1.00		

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	0.00040	0.00040	0.00040	0.00000
100	0.00000	0.00000	0.00000	0.00000	0.00140	0.00020	0.00110	0.00030	0.00000
200	0.00000	0.00000	0.00040	0.00040	0.00080	0.00010	0.00010	0.00000	0.00000
300	0.00000	0.00000	0.00000	0.00000	0.00020	0.00010	0.00040	0.00000	0.00040
400	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00010	0.00010	0.00000
500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
600	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
700	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
800	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
900	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1200	0.00045	0.00045	0.00000	0.00000	0.00045	0.00040	0.00040	0.00110	0.00010
1400	0.00045	0.00000	0.00000	0.00000	0.00045	0.00010	0.00040	0.00120	0.00010
1600	0.00010	0.00000	0.00000	0.00000	0.00045	0.00010	0.00040	0.00120	0.00010
1800	0.00010	0.00000	0.00000	0.00000	0.00045	0.00005	0.00035	0.00125	0.00005
2000	0.00010	0.00000	0.00000	0.00000	0.00045	0.00000	0.00000	0.00000	0.00000
3000	0.00010	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
4000	0.00002								
5000	0.00002								
6000	0.00002								
7000	0.00002								
8000	0.00002								
9000	0.00002								

* Based on unpublished data of D. R. Hart, Department of Agricultural Engineering, University of Illinois

** Based on "Agricultural Machinery Data" in Agricultural Engineers Yearbook, 1953

Code

- 1 tractor
- 2 baler, combine, large harrow, windrower, pickup
- 3 mow, disk, disk, moldboard plow, chisel, field cultivator, subsoiler, soil prep
- 4 harrow, weeder, disk, subsoiler, drag, roller, water pump, field sprayer
- 5 baler, cotton picker, cotton stripper, corn picker, corn head, forage harrow, rotary mower, sick chopper, feed wagon, farm truck
- 6 chain, collector, mixer
- 7 baler w/ engine, manure spreader
- 8 plow, disk, moldboard, mounted sprayer
- 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 2018
 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	\$2.02	\$0.22	\$0.60	\$4.54
DISC	40 HP	0.17 HR		\$1.45	\$1.72	\$0.18	\$0.51	\$3.86
DRILL	40 HP	0.25 HR		\$2.14	\$2.52	\$0.27	\$0.75	\$5.68
DITCH MAINTENANCE		0.50 HR		\$4.28				\$4.28
IRRIGATE (1X)		0.75 HR		\$5.63				\$5.63
SUBTOTAL		1.87 HR		\$15.20	\$6.26	\$0.67	\$1.86	\$23.99
OVERHEAD EXPENSES								
DOWNTIME		0.16 HR		\$1.33				\$1.33
EMPLOYEE BENEFITS				\$2.74				\$2.74
INSURANCE			\$0.30					\$0.30
SUPERVISION AND MANAGEMENT				\$7.78				\$7.78
SUBTOTAL		0.16 HR	\$0.30	\$11.84				\$12.14
TOTAL OPERATING EXPENSES		2.03 HR	\$72.30	\$27.04	\$6.26	\$0.67	\$1.86	\$108.13

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 2018
Harvesting dates: May 15 - September 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ALFALF FA HAY	\$185.00	6.20 TONS (STACKED)	\$1,147.00
GRAZING	\$15.00	1.00 ACRE	\$15.00
TOTAL			\$1,162.00

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	\$1.32	53.13 LBS	\$70.14	\$3.47	\$3.47
CANAL WATER		16.00 AC. IN.	\$5.00		\$70.14
PUMP WATER*		8.00 AC. IN.			\$5.00
SUBTOTAL			\$75.14	\$18.28	\$93.42

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		\$30.00	\$6.64	\$0.00	\$14.37	\$51.01
SUBTOTAL		4.50 HR		\$34.28	\$6.64	\$0.00	\$14.37	\$55.28

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
MOWER (3X)	40 HP	1.11 HR		\$9.49	\$11.21	\$1.60	\$5.42	\$27.72
RAKE (3X)	40 HP	0.36 HR		\$3.08	\$3.64	\$0.54	\$3.58	\$10.83
BALER (3X)	40 HP	0.63 HR		\$5.39	\$6.36	\$0.78	\$8.09	\$20.62
HAUL (3X)	1 TON TRUCK	4.50 HR		\$38.48	\$77.18	\$37.46	\$56.70	\$209.82
SUBTOTAL		6.60 HR		\$56.43	\$98.39	\$40.38	\$73.79	\$268.99

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	1.65 HR		\$14.11				\$14.11
EMPLOYEE BENEFITS			\$16.33				\$16.33
INSURANCE		\$1.81					\$1.81
LAND TAXES					\$0.20		\$0.20
SUPERVISION AND MANAGEMENT			\$88.64				\$88.64
OTHER EXPENSES		\$247.77					\$247.77
SUBTOTAL	1.65 HR	\$249.58	\$119.07		\$0.20		\$368.86

TOTAL OPERATING EXPENSES	12.75 HR	\$324.72	\$209.78	\$105.03	\$40.38	\$106.64	\$786.55
--------------------------	----------	----------	----------	----------	---------	----------	----------

NET OPERATING PROFIT							\$375.45
----------------------	--	--	--	--	--	--	----------

INTEREST ON OPERATING CAPITAL	(\$50.79 @ 5.50%)						\$2.79
INTEREST ON EQUIPMENT INVESTMENT							\$2.15

RETURN TO LAND AND RISK							\$370.51
-------------------------	--	--	--	--	--	--	----------

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

BUDGET SUMMARY

GROSS RETURN		\$1,162.00	
VARIABLE OPERATING EXPENSES	\$470.13		
RETURN OVER VARIABLE EXPENSES	\$691.87	(GROSS MARGIN)	
FIXED EXPENSES	\$106.64		
NET FARM INCOME	\$585.23	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$209.78		
NET OPERATING PROFIT	\$375.45	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$4.94		
RETURN TO LAND AND RISK	\$370.51		

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 2018
 Harvesting dates: July 20 - September 15

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
HAY	\$175.00	1.50 TONS (STACKED)						\$262.50	
GRAZING	\$13.00	1.00 ACRE						\$13.00	
TOTAL								\$275.50	
PURCHASED INPUTS									
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL	
LIVESTOCK FAC & EQUIP							\$4.00	\$4.00	
BALING WIRE	\$1.32	13 LBS	\$16.97					\$16.97	
CANAL WATER		12 AC. IN.	\$5.00					\$5.00	
PUMP WATER*		6 AC. IN.							
SUBTOTAL			\$21.97				\$4.00	\$25.97	
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	\$4.98	\$0.00	\$10.77	\$37.13	
SUBTOTAL			3.00 HR	\$25.65	\$4.98	\$0.00	\$10.77	\$41.41	
HARVEST OPERATIONS									
MOWER (2X)	40 HP	0.74 HR		\$6.33	\$7.47	\$1.07	\$3.61	\$18.48	
RAKE (2X)	40 HP	0.24 HR		\$2.05	\$2.42	\$0.36	\$2.38	\$7.22	
BALER, 1-TON (2X)	40 HP	0.42 HR		\$3.59	\$4.24	\$0.52	\$5.39	\$13.74	
HAUL (2X)	TRUCK	1.60 HR		\$13.68	\$27.44	\$13.32	\$20.16	\$74.60	
SUBTOTAL			3.00 HR	\$0.00	\$25.65	\$41.58	\$15.27	\$31.55	\$114.05
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				\$20.79				\$20.79	
OTHER EXPENSES			\$247.77					\$247.77	
SUBTOTAL			0.75 HR	\$248.79	\$36.43		\$0.20	\$285.42	
TOTAL OPERATING EXPENSES			3.75 HR	\$270.76	\$87.73	\$46.56	\$15.27	\$466.85	
NET OPERATING PROFIT								(\$191.35)	
INTEREST ON OPERATING CAPITAL		(\$16.97	@	5.50%)		\$0.93	
INTEREST ON EQUIPMENT INVESTMENT								\$21.11	
RETURN TO LAND AND RISK								(\$213.39)	

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

BUDGET SUMMARY

GROSS RETURN		\$275.50	
VARIABLE OPERATING EXPENSES	\$332.59		
RETURN OVER VARIABLE EXPENSES		(\$57.09)	(GROSS MARGIN)
FIXED EXPENSES	\$46.53		
NET FARM INCOME		(\$103.62)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$87.73		
NET OPERATING PROFIT		(\$191.35)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$22.04		
RETURN TO LAND AND RISK		(\$213.39)	

TABLE 9. Summary of per acre costs and returns for an 80 acre part-time farm, Dry Cimarron area, Union County, Projected 2018

	ALFALFA ESTABLISHMENT	ALFALFA HAY	NATIVE GRASS HAY
		TONS	TONS
PRIMARY YIELD		6.20	1.50
PRIMARY PRICE		\$185.00	\$175.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00
SECOND INCOME		\$15.00	\$13.00
GROSS RETURN		\$1,162.00	\$275.50
CASH OPERATING EXPENSES			
SEED	\$72.00		
FERTILIZER			
CHEMICALS			
CROP INSURANCE			
OTHER PURCHASED INPUTS		\$70.14	\$16.97
CANAL WATER		\$5.00	\$5.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.26	\$98.39	\$41.58
FUEL-IRRIGATION		\$6.64	\$4.98
REPAIRS	\$0.67	\$40.38	\$15.27
CUSTOM CHARGES			
LAND TAXES		\$0.20	\$0.20
OTHER EXPENSES	\$0.30	\$249.58	\$248.79
TOTAL CASH EXPENSES	\$79.23	\$470.33	\$332.79
RETURN OVER CASH EXPENSES	(\$79.23)	\$691.67	(\$57.29)
FIXED EXPENSES	\$1.86	\$106.44	\$46.33
TOTAL EXPENSES	\$81.09	\$576.77	\$379.12
NET FARM INCOME	(\$81.09)	\$585.23	(\$103.62)
LABOR AND MANAGEMENT COSTS	\$27.04	\$209.78	\$87.73
NET OPERATING PROFIT	(\$108.13)	\$375.45	(\$191.35)
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL		\$2.79	\$0.93
INTEREST ON EQUIPMENT INVESTMENT		\$2.15	\$21.11
TOTAL CAPITAL COSTS	\$0.00	\$4.94	\$22.04
RETURN TO LAND AND RISK	(\$108.13)	\$370.51	(\$213.39)

TABLE 10. Whole farm summary, Union County,
Projected 2018

GROSS RETURNS		
ALFALFA HAY	40 ACRES	
CROP		\$45,880
GRAZING		\$600
NATIVE GRASS HAY	40 ACRES	
CROP		\$10,500
GRAZING		\$520
GROSS RETURN		\$57,500
CASH OPERATING EXPENSES		
SEED		\$288
FERTILIZER		\$0
CHEMICALS		\$0
CROP INSURANCE		\$0
OTHER PURCHASED INPUTS		\$3,484
CANAL WATER		\$400
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$5,624
FUEL-IRRIGATION		\$465
REPAIRS		\$2,229
CUSTOM CHARGES		\$0
LAND TAXES		\$16
OTHER EXPENSES		\$19,936
TOTAL CASH EXPENSES		\$32,442
RETURN OVER CASH EXPENSES		\$25,058
FIXED EXPENSES		\$5,685
TOTAL EXPENSES		\$38,127
NET FARM INCOME		\$19,373
LABOR AND MANAGEMENT COSTS		\$12,009
NET OPERATING PROFIT		\$7,364
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$149
INTEREST ON EQUIPMENT INVESTMENT		\$930
TOTAL CAPITAL COSTS		\$1,079
RETURN TO LAND AND RISK		\$6,285

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$200 /ACRE	\$5,805	13.39%
\$350 /ACRE	\$5,445	10.99%
\$500 /ACRE	\$5,085	9.32%

* 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)