

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... UNION COUNT*Projected 2009.
FARM SIZE..... 1,280.00 ACRES
IRRIGATION TYPE..... SPRINKLER
NUMBER OF CROPS..... 4

VERSION 1.0

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

BUDGET AREA..... UNION COUNTY			
FARM SIZE.....	1,280 ACRES		
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS...	5		
	WATER USE		
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
ALFALFA ESTABLISHMENT	55.00 *	3	165
ALFALFA	375.00	40	15,000
WHEAT	318.75	11	3,506
ARP	0.00		
FLEX IN WHEAT	56.25	11	619
CORN	127.50	34	4,335
ARP	0.00		
FLEX IN WHEAT	22.50	11	248
GRAIN SORGHUM	127.50	12	1,530
ARP	0.00		
FLEX IN WHEAT	22.50	11	248
HAYGRAZER	190.00		
ROADS, HOMESTEAD	40.00		
TOTAL	1,280.00		25,650
ACRE FEET PER ACRE OF WATER RIGHTS			1.67

* DOUBLE-CROPPED

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

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$8.55
General & Irrigators		\$/hour	\$7.25
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.62
Phosphate (P205)		\$/pound	\$0.58
Potash (K2O)		\$/pound	\$0.35
Seed:			
Alfalfa		\$/pound	\$4.00
Wheat		\$/pound	\$0.26
Corn for Grain		\$/bag	\$220.00
Grain Sorghum		\$/pound	\$1.69
Haygrazer/Millet		\$/pound	\$0.52
Oats		\$/pound	\$0.42
Natural gas			
(service charge)		\$/MCF	\$5.89
Diesel fuel		\$/gallon	\$10.00
Gasoline		\$/gallon	\$2.80
Electricity		cents/KwHr	6.85
LP Gas		\$/gallon	\$2.40
Baling Twine		\$/pound	\$0.29
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	\$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 Union County,
Projected 2009.

Item			
Electricity (Domestic & Shop)		\$464.00 per month	\$5,568
Telephone		\$226.20 per month	\$2,714
Accounting & Legal			\$4,217
Misc. Supplies & Hand Tools			\$4,280
Pickup and Auto			
miles	35,960	@ \$0.415 per mile	\$14,923
Insurance			
- general liability (non-employee)			\$2,726
- fire/theft			\$2,187
Property Taxes			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$1,757
Dues, fees, publications			\$406
Farmstead Equipment			\$336
Total			\$45,125
Total per planted acre			\$41.48
Total per dryland acre			\$8.30

TABLE 6. Summary Statistics for Equipment with 1000 Hours, Utah County

Category	Count	Mean	Standard Deviation
Equipment with 1000 Hours	75	1000	100
Equipment with 2000 Hours	15	2000	200
Equipment with 3000 Hours	10	3000	300
Equipment with 4000 Hours	5	4000	400
Equipment with 5000 Hours	3	5000	500
Equipment with 6000 Hours	2	6000	600
Equipment with 7000 Hours	1	7000	700
Equipment with 8000 Hours	1	8000	800
Equipment with 9000 Hours	1	9000	900
Equipment with 10000 Hours	1	10000	1000

TABLE 7. Equipment Inventory for 1,000 and Greater Hours for All-Subtract Average Age Equipment, Utah County

Category	Count	Mean	Standard Deviation
Equipment with 1,000 and Greater Hours	15	1000	100
Equipment with 2,000 and Greater Hours	10	2000	200
Equipment with 3,000 and Greater Hours	5	3000	300
Equipment with 4,000 and Greater Hours	3	4000	400
Equipment with 5,000 and Greater Hours	2	5000	500
Equipment with 6,000 and Greater Hours	1	6000	600
Equipment with 7,000 and Greater Hours	1	7000	700
Equipment with 8,000 and Greater Hours	1	8000	800
Equipment with 9,000 and Greater Hours	1	9000	900
Equipment with 10,000 and Greater Hours	1	10000	1000

EQUIPMENT LIST

Category	Count	Mean	Standard Deviation
Equipment with 1000 and Greater Hours	15	1000	100
Equipment with 2000 and Greater Hours	10	2000	200
Equipment with 3000 and Greater Hours	5	3000	300
Equipment with 4000 and Greater Hours	3	4000	400
Equipment with 5000 and Greater Hours	2	5000	500
Equipment with 6000 and Greater Hours	1	6000	600
Equipment with 7000 and Greater Hours	1	7000	700
Equipment with 8000 and Greater Hours	1	8000	800
Equipment with 9000 and Greater Hours	1	9000	900
Equipment with 10000 and Greater Hours	1	10000	1000

SUMMARY OF PRODUCTION

Category	Count	Mean	Standard Deviation
Equipment with 1000 and Greater Hours	15	1000	100
Equipment with 2000 and Greater Hours	10	2000	200
Equipment with 3000 and Greater Hours	5	3000	300
Equipment with 4000 and Greater Hours	3	4000	400
Equipment with 5000 and Greater Hours	2	5000	500
Equipment with 6000 and Greater Hours	1	6000	600
Equipment with 7000 and Greater Hours	1	7000	700
Equipment with 8000 and Greater Hours	1	8000	800
Equipment with 9000 and Greater Hours	1	9000	900
Equipment with 10000 and Greater Hours	1	10000	1000

ALFA ROMEO EQUIPMENT

Category	Count	Mean	Standard Deviation
Alfa Romeo Equipment	15	1000	100
Alfa Romeo Equipment	10	2000	200
Alfa Romeo Equipment	5	3000	300
Alfa Romeo Equipment	3	4000	400
Alfa Romeo Equipment	2	5000	500
Alfa Romeo Equipment	1	6000	600
Alfa Romeo Equipment	1	7000	700
Alfa Romeo Equipment	1	8000	800
Alfa Romeo Equipment	1	9000	900
Alfa Romeo Equipment	1	10000	1000

ISUZU

Category	Count	Mean	Standard Deviation
Isuzu	15	1000	100
Isuzu	10	2000	200
Isuzu	5	3000	300
Isuzu	3	4000	400
Isuzu	2	5000	500
Isuzu	1	6000	600
Isuzu	1	7000	700
Isuzu	1	8000	800
Isuzu	1	9000	900
Isuzu	1	10000	1000

CUMMINS

Category	Count	Mean	Standard Deviation
Cummins	15	1000	100
Cummins	10	2000	200
Cummins	5	3000	300
Cummins	3	4000	400
Cummins	2	5000	500
Cummins	1	6000	600
Cummins	1	7000	700
Cummins	1	8000	800
Cummins	1	9000	900
Cummins	1	10000	1000

DAEWOO

Category	Count	Mean	Standard Deviation
Daewoo	15	1000	100
Daewoo	10	2000	200
Daewoo	5	3000	300
Daewoo	3	4000	400
Daewoo	2	5000	500
Daewoo	1	6000	600
Daewoo	1	7000	700
Daewoo	1	8000	800
Daewoo	1	9000	900
Daewoo	1	10000	1000

HYUNDAI

Category	Count	Mean	Standard Deviation
Hyundai	15	1000	100
Hyundai	10	2000	200
Hyundai	5	3000	300
Hyundai	3	4000	400
Hyundai	2	5000	500
Hyundai	1	6000	600
Hyundai	1	7000	700
Hyundai	1	8000	800
Hyundai	1	9000	900
Hyundai	1	10000	1000

MANUFACTURER CODES AS A PERCENT OF NEW VALUE

Manufacturer	Code	Percentage
Alfa Romeo	1	15%
Isuzu	2	10%
Cummins	3	5%
Daewoo	4	3%
Hyundai	5	2%

TABLE 8. Equipment Inventory for 1,000 and Greater Hours for All-Subtract Average Age Equipment, Utah County

Category	Count	Mean	Standard Deviation
Equipment with 1,000 and Greater Hours	15	1000	100
Equipment with 2,000 and Greater Hours	10	2000	200
Equipment with 3,000 and Greater Hours	5	3000	300
Equipment with 4,000 and Greater Hours	3	4000	400
Equipment with 5,000 and Greater Hours	2	5000	500
Equipment with 6,000 and Greater Hours	1	6000	600
Equipment with 7,000 and Greater Hours	1	7000	700
Equipment with 8,000 and Greater Hours	1	8000	800
Equipment with 9,000 and Greater Hours	1	9000	900
Equipment with 10,000 and Greater Hours	1	10000	1000

TABLE 6. Alfalfa establishment, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.

Planting dates: August 1 - September 1									
ITEM	PRICE	QUANTITY	PURCHASED INPUTS						TOTAL
PURCHASED INPUTS									
SEED	\$4.00	20 LBS	\$80.00						\$80.00
OAT SEED	\$0.42	30 LBS	\$12.60						\$12.60
PUMP WATER*		3 AC. IN.							
SUBTOTAL			\$92.60						\$92.60
PREHARVEST OPERATIONS									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70	
CULTI-PACKER	93 HP	0.17 HR		\$1.45	\$2.59	\$0.36	\$4.40	\$8.80	
DRILL	93 HP	0.12 HR		\$1.03	\$1.83	\$0.46	\$2.42	\$5.73	
IRRIGATE (4X)		0.40 HR		\$2.90	\$12.10	\$0.00	\$0.43	\$15.44	
SUBTOTAL		0.76 HR		\$5.98	\$18.55	\$2.09	\$10.05	\$36.67	
OVERHEAD EXPENSES									
DOWNTIME		0.09 HR		\$0.77				\$0.77	
EMPLOYEE BENEFITS				\$1.08				\$1.08	
INSURANCE			\$0.12					\$0.12	
SUPERVISION AND MANAGEMENT				\$9.63				\$9.63	
SUBTOTAL		0.09	\$0.12	\$11.47				\$11.59	
TOTAL OPERATING EXPENSES		0.85 HR	\$92.72	\$17.45	\$18.55	\$2.09	\$10.05	\$140.86	

TABLE 7. Alfalfa hay, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.
Harvesting dates: June 1 - October 10

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
NITROGEN (N)	\$0.62	30 LBS	\$18.60		\$18.60
PHOSPHATE (P2O5)	\$0.58	100 LBS	\$58.00		\$58.00
POTASH (K2O)	\$0.35	50 LBS	\$17.50		\$17.50
TRACE ELEMENTS	\$0.15	12 LBS	\$1.80		\$1.80
ESTABLISHMENT:Principal		7 YEARS		\$20.12	\$20.12
: Interest				\$6.01	\$6.01
BALING TWINE	\$0.29	1 ROLL	\$0.16		\$0.16
PUMP WATER*		40 AC. IN.			
SUBTOTAL			\$96.06	\$26.13	\$122.20

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
IRRIGATE (11X)		1.10 HR		\$7.98	\$161.38	\$0.00	\$5.78	\$175.13
SUBTOTAL		1.10 HR		\$7.98	\$161.38	\$0.00	\$5.78	\$175.13

HARVEST OPERATIONS								
SWATHER (4X)	13 FT SP	0.64 HR		\$5.47	\$6.71	\$0.37	\$3.68	\$16.24
BALER (4X)	126 HP	0.68 HR		\$5.81	\$15.71	\$2.85	\$5.98	\$30.35
SUBTOTAL		1.32 HR		\$11.29	\$22.42	\$3.22	\$9.66	\$46.58

OVERHEAD EXPENSES								
DOWNTIME		0.33 HR		\$2.82				\$2.82
EMPLOYEE BENEFITS				\$3.47				\$3.47
INSURANCE			\$0.39					\$0.39
LAND TAXES						\$0.20		\$0.20
SUPERVISION AND MANAGEMENT				\$65.46				\$65.46
OTHER EXPENSES			\$41.48					\$41.48
SUBTOTAL		0.33 HR	\$41.86	\$71.75		\$0.20		\$113.81

TOTAL OPERATING EXPENSES		2.75 HR	\$137.92	\$91.01	\$183.79	\$3.22	\$41.77	\$457.72
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NET OPERATING PROFIT								\$452.28
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INTEREST ON OPERATING CAPITAL	(\$90.51	@	7.50%)			\$6.79
INTEREST ON EQUIPMENT INVESTMENT								\$11.21

RETURN TO LAND AND RISK								\$434.28
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$910.00	
VARIABLE OPERATING EXPENSES	\$324.94		
RETURN OVER VARIABLE EXPENSES	\$585.06		(GROSS MARGIN)
FIXED EXPENSES	\$41.77		
NET FARM INCOME	\$543.29		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$91.01		
NET OPERATING PROFIT	\$452.28		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$18.00		
RETURN TO LAND AND RISK	\$434.28		

TABLE 8. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.
Planting dates: August 15 - November 15
Harvesting dates: July 1 - July 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
WHEAT	\$6.00	80.00 BUSHELS		\$480.00
DIRECT PAYMENT	\$0.00	80.00 BUSHELS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$40.00	1.00 ACRE		\$40.00
TOTAL				\$520.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.26	100 LBS	\$26.00		\$26.00
MANURE	\$2.70	8 TON	\$21.60		\$21.60
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		11 AC. IN.			\$0.00
CROP INSURANCE	\$0.12				\$0.12
SUBTOTAL			\$47.60	\$5.00	\$52.72

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70
CHISEL	185 HP	0.09 HR		\$0.77	\$2.61	\$0.70	\$2.81	\$6.89
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70
DRILL	126 HP	0.12 HR		\$1.03	\$2.77	\$0.68	\$1.93	\$6.41
IRRIGATE (7X)		0.70 HR		\$5.08	\$44.38	\$0.00	\$2.00	\$51.46
SUBTOTAL		1.05 HR		\$8.07	\$53.82	\$3.93	\$12.34	\$78.16

HARVEST OPERATIONS	GRAIN TABLE	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	93 HP	0.14 HR		\$1.20	\$3.27	\$0.52	\$13.78	\$18.78
GRAIN CART		0.14 HR		\$1.20	\$2.13	\$0.59	\$2.71	\$6.63
TRUCK	SEMI	0.14 HR		\$1.20	\$2.06	\$0.39	\$6.03	\$9.67
SUBTOTAL		0.42 HR	\$0.00	\$3.59	\$7.46	\$1.51	\$22.52	\$35.09

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.19 HR		\$1.65				\$1.65
EMPLOYEE BENEFITS			\$2.10				\$2.10
INSURANCE		\$0.23					\$0.23
LAND TAXES						\$0.20	\$0.20
SUPERVISION AND MANAGEMENT			\$37.49				\$37.49
OTHER EXPENSES		\$41.48					\$41.48
SUBTOTAL	0.19 HR	\$41.71	\$41.23			\$0.20	\$83.14

TOTAL OPERATING EXPENSES	1.66 HR	\$89.31	\$52.89	\$61.28	\$5.45	\$40.06	\$249.10
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NET OPERATING PROFIT							\$270.90
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INTEREST ON OPERATING CAPITAL	(\$39.05	@	7.50%)		\$2.93
INTEREST ON EQUIPMENT INVESTMENT							\$18.21

RETURN TO LAND AND RISK							\$249.76
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* Pump water costs are shown under irrigation in the preharvest operations section.

BUDGET SUMMARY

GROSS RETURN		\$520.00	
VARIABLE OPERATING EXPENSES	\$156.04		
RETURN OVER VARIABLE EXPENSES	\$363.96		(GROSS MARGIN)
FIXED EXPENSES	\$40.06		
NET FARM INCOME	\$323.90		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$52.89		
NET OPERATING PROFIT	\$271.02		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$21.14		
RETURN TO LAND AND RISK		\$249.88	

TABLE 9. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.
Planting dates: April 15 - May 15
Harvesting dates: October 1 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
CORN FOR GRAIN	\$4.10	200.00 BUSHELS		\$820.00
DIRECT PAYMENT	\$0.00	200.00 BUSHELS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 BUSHELS		\$0.00
GRAZING	\$20.00	1.00 ACRE		\$20.00
TOTAL				\$840.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.75	26.00 000	\$71.50		\$71.50
NITROGEN (N)	\$0.62	220.00 LBS	\$136.40		\$136.40
PHOSPHATE (P2O5)	\$0.58	70.00 LBS	\$40.60		\$40.60
POTASSIUM (K-MAG)	\$0.21	300.00 LBS	\$63.00		\$63.00
INSECTICIDE	\$15.07	3.00 ACRE	\$45.20		\$45.20
HERBICIDE	\$22.60	1.00 ACRE	\$22.60		\$22.60
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		34.00 AC. IN.			\$0.00
CROP INSURANCE	\$0.39				\$0.39
SUBTOTAL			\$379.30	\$5.00	\$384.69

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70
CHISEL	185 HP	0.09 HR		\$0.77	\$2.61	\$0.70	\$2.81	\$6.89
DISC & SPRAY	185 HP	0.10 HR		\$0.86	\$2.90	\$1.89	\$4.83	\$10.47
PLANTER	126 HP	0.12 HR		\$1.03	\$2.77	\$0.79	\$5.28	\$9.87
ROLLING CULT (2X)	126 HP	0.20 HR		\$1.71	\$4.62	\$1.79	\$4.29	\$12.40
SIDEDRESS	185 HP	0.17 HR		\$1.45	\$4.93	\$0.98	\$4.79	\$12.16
IRRIGATE (16X)		1.60 HR		\$11.60	\$137.17	\$0.00	\$6.19	\$154.96
SUBTOTAL		2.35 HR		\$18.01	\$157.03	\$7.43	\$30.99	\$213.46

HARVEST OPERATIONS								
COMBINE	CORN HEAD	0.20 HR		\$1.71	\$4.68	\$0.93	\$32.10	\$39.42
GRAIN CART	93 HP	0.20 HR		\$1.71	\$3.04	\$0.85	\$3.87	\$9.48
TRUCK	SEMI	0.20 HR		\$1.71	\$2.94	\$0.56	\$8.61	\$13.82
SUBTOTAL		0.60 HR	\$0.00	\$5.13	\$10.66	\$2.34	\$44.58	\$62.72

OVERHEAD EXPENSES								
DOWNTIME		0.30 HR		\$2.52				\$2.52
EMPLOYEE BENEFITS				\$4.17				\$4.17
INSURANCE			\$0.46					\$0.46
LAND TAXES							\$0.20	\$0.20
SUPERVISION AND MANAGEMENT				\$62.04				\$62.04
OTHER EXPENSES				\$41.48				\$41.48
SUBTOTAL		0.30 HR	\$41.94	\$68.73			\$0.20	\$110.86

TOTAL OPERATING EXPENSES		3.25 HR	\$421.24	\$91.87	\$167.70	\$9.77	\$80.77	\$771.74
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NET OPERATING PROFIT								\$68.26
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INTEREST ON OPERATING CAPITAL	(\$232.05	@	7.50%)			\$17.40
INTEREST ON EQUIPMENT INVESTMENT								\$39.88

RETURN TO LAND AND RISK								\$10.98
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* Pump water costs are shown under irrigation in the preharvest operations section

BUDGET SUMMARY

GROSS RETURN		\$840.00		
VARIABLE OPERATING EXPENSES	\$598.71			
RETURN OVER VARIABLE EXPENSES	\$241.29	(GROSS MARGIN)		
FIXED EXPENSES	\$80.77			
NET FARM INCOME	\$160.53	(RETURN TO CAPITAL, LABOR, LAND & RISK)		
LABOR AND MANAGEMENT COST	\$91.87			
NET OPERATING PROFIT	\$68.66	(RETURN TO CAPITAL, LAND & RISK)		
CAPITAL COSTS	\$57.29			
RETURN TO LAND AND RISK	\$11.37			

TABLE 10. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.
 Planting dates: May 15 - June 15
 Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
GRAIN SORGHUM	\$7.70	45.00 CWT		\$346.50
DIRECT PAYMENT	\$0.00	45.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$5.00	1.00 ACRE		\$5.00
TOTAL				\$351.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.69	5 LBS	\$8.45		\$8.45
NITROGEN (N)	\$0.62	150 LBS	\$93.00		\$93.00
PHOSPHATE (P205)	\$0.58	50 LBS	\$29.00		\$29.00
HERBICIDE	\$22.60	1 ACRE	\$22.60		\$22.60
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		12 AC. IN.			
CROP INSURANCE	\$0.39				\$0.39
SUBTOTAL			\$153.05	\$5.00	\$158.45

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70
CHISEL	185 HP	0.09 HR		\$0.77	\$2.61	\$0.70	\$2.81	\$6.89
DISC & SPRAY	185 HP	0.10 HR		\$0.86	\$2.90	\$1.89	\$4.83	\$10.47
PLANTER	126 HP	0.12 HR		\$1.03	\$2.77	\$0.79	\$5.28	\$9.87
ROLLING CULT.	126 HP	0.10 HR		\$0.86	\$2.31	\$0.89	\$2.14	\$6.20
SIDEDRESS ANHYDROUS	185 HP	0.17 HR		\$1.45	\$4.93	\$0.98	\$4.79	\$12.16
IRRIGATE (6X)		0.60 HR		\$4.35	\$48.41	\$0.00	\$2.18	\$54.95
SUBTOTAL		1.25 HR		\$9.91	\$65.97	\$6.54	\$24.84	\$107.25

HARVEST OPERATIONS	GRAIN TABLE	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	GRAIN TABLE	0.14 HR		\$1.20	\$3.27	\$0.52	\$13.78	\$18.78
GRAIN CART	93 HP	0.14 HR		\$1.20	\$2.13	\$0.59	\$2.71	\$6.63
TRUCK	2 T 18 FT	0.14 HR		\$1.20	\$1.65	\$0.06	\$16.26	\$19.16
SUBTOTAL		0.42 HR	\$0.00	\$3.59	\$7.05	\$1.17	\$32.76	\$44.57

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.23 HR		\$1.92				\$1.92
EMPLOYEE BENEFITS			\$2.43				\$2.43
INSURANCE		\$0.27					\$0.27
LAND TAXES						\$0.20	\$0.20
SUPERVISION AND MANAGEMENT			\$25.87				\$25.87
OTHER EXPENSES		\$41.48					\$41.48
SUBTOTAL	0.23 HR	\$41.75	\$30.22			\$0.20	\$72.16

TOTAL OPERATING EXPENSES 1.90 HR \$194.80 \$43.72 \$73.02 \$7.71 \$62.79 \$382.43

NET OPERATING PROFIT (\$30.93)

INTEREST ON OPERATING CAPITAL (\$95.54 @ 7.50%) \$7.17
 INTEREST ON EQUIPMENT INVESTMENT \$28.24

RETURN TO LAND AND RISK (\$66.33)

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

GROSS RETURN		\$351.50	
VARIABLE OPERATING EXPENSES	\$275.53		
RETURN OVER VARIABLE EXPENSES		\$75.97	(GROSS MARGIN)
FIXED EXPENSES	\$62.79		
NET FARM INCOME		\$13.18	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$43.72		
NET OPERATING PROFIT		(\$30.54)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$35.40		
RETURN TO LAND AND RISK		(\$65.94)	

TABLE 11. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2009.
 Planting dates: June 1 - June 15
 Harvesting dates: September 1 - September 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
HAY	\$115.00	1.50 TONS						\$172.50
TOTAL							\$172.50	
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.52	6 LBS	\$3.12					\$3.12
HERBICIDE	\$13.70	1 ACRE	\$13.70					\$13.70
BALING TWINE	\$0.29	0 ROLL	\$0.04					\$0.04
SUBTOTAL			\$16.85					\$16.85
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.09 HR		\$0.77	\$2.61	\$0.70	\$2.81	\$6.89
DISC	185 HP	0.07 HR		\$0.60	\$2.03	\$1.27	\$2.80	\$6.70
DRILL	126 HP	0.12 HR		\$1.03	\$2.77	\$0.68	\$1.93	\$6.41
SUBTOTAL		0.28 HR		\$2.39	\$7.41	\$2.66	\$7.54	\$20.00
HARVEST OPERATIONS								
SWATHER	14 FT SP	0.16 HR		\$1.37	\$1.68	\$0.09	\$0.92	\$4.06
BALER	126 HP	0.17 HR		\$1.45	\$3.93	\$0.71	\$1.49	\$7.59
SUBTOTAL		0.33 HR	\$0.00	\$2.82	\$5.60	\$0.81	\$2.41	\$11.65
OVERHEAD EXPENSES								
DOWNTIME		0.15 HR		\$1.30				\$1.30
EMPLOYEE BENEFITS				\$0.94				\$0.94
INSURANCE			\$0.10					\$0.10
LAND TAXES							\$0.20	\$0.20
SUPERVISION AND MANAGEMENT				\$12.38				\$12.38
OTHER EXPENSES			\$41.48					\$41.48
SUBTOTAL		0.15 HR	\$41.58	\$14.62			\$0.20	\$56.40
TOTAL OPERATING EXPENSES		0.43 HR	\$58.43	\$19.84	\$13.02	\$3.47	\$10.15	\$104.90
NET OPERATING PROFIT							\$67.60	
INTEREST ON OPERATING CAPITAL		(\$11.48	@	7.50%)	\$0.86	
INTEREST ON EQUIPMENT INVESTMENT							\$5.96	
RETURN TO LAND AND RISK							\$60.78	

BUDGET SUMMARY			
GROSS RETURN		\$172.50	
VARIABLE OPERATING EXPENSES	\$74.92		
RETURN OVER VARIABLE EXPENSES	\$97.58		(GROSS MARGIN)
FIXED EXPENSES	\$10.15		
NET FARM INCOME	\$87.43		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$19.84		
NET OPERATING PROFIT	\$67.60		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$6.82		
RETURN TO LAND AND RISK	\$60.78		

TABLE 12. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County,
Projected 2009.

	ALFALFA ESTABLISHMENT	ALFALFA HAY	WHEAT	CORN FOR GRAIN	GRAIN SORGHUM	HAYGRAZER & MILLET
		TONS	BU	BU	CWT	TONS
PRIMARY YIELD		6.50	80.00	200.00	45.00	1.50
PRIMARY PRICE		\$140.00	\$6.00	\$4.10	\$7.70	\$115.00
GOVERNMENT PAYMENTS		\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME		\$0.00	\$40.00	\$20.00	\$5.00	\$0.00
GROSS RETURN		\$910.00	\$520.00	\$840.00	\$351.50	\$172.50
CASH OPERATING EXPENSES						
SEED	\$92.60		\$26.00	\$71.50	\$8.45	\$3.12
FERTILIZER		\$95.90	\$21.60	\$240.00	\$122.00	
CHEMICALS				\$67.80	\$22.60	\$13.70
CROP INSURANCE			\$0.12	\$0.39	\$0.39	
OTHER PURCHASED INPUTS		\$0.16				\$0.04
CANAL WATER						
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.45	\$22.42	\$16.91	\$30.52	\$24.61	\$13.02
FUEL-IRRIGATION	\$12.10	\$161.38	\$44.38	\$137.17	\$48.41	
REPAIRS	\$2.09	\$3.22	\$5.45	\$9.77	\$7.71	\$3.47
CUSTOM CHARGES						\$0.00
LAND TAXES		\$0.20	\$0.20	\$0.20	\$0.20	\$0.20
OTHER EXPENSES	\$0.12	\$41.86	\$41.71	\$41.94	\$41.75	\$41.58
TOTAL CASH EXPENSES	\$113.36	\$325.14	\$156.36	\$599.30	\$276.12	\$75.12
RETURN OVER CASH EXPENSES	(\$113.36)	\$584.86	\$363.64	\$240.70	\$75.38	\$97.38
FIXED EXPENSES	\$10.05	\$41.57	\$39.86	\$80.57	\$62.59	\$9.95
TOTAL EXPENSES	\$123.41	\$366.71	\$196.21	\$679.87	\$338.71	\$85.07
NET FARM INCOME	(\$123.41)	\$543.29	\$323.79	\$160.13	\$12.79	\$87.43
LABOR AND MANAGEMENT COSTS	\$17.45	\$91.01	\$52.89	\$91.87	\$43.72	\$19.84
NET OPERATING PROFIT	(\$140.86)	\$452.28	\$270.90	\$68.26	(\$30.93)	\$67.60
CAPITAL COSTS						
INTEREST ON OPERATING CAPITAL		\$6.79	\$2.93	\$17.40	\$7.17	\$0.86
INTEREST ON EQUIPMENT INVESTMENT		\$11.21	\$18.21	\$39.88	\$28.24	\$5.96
TOTAL CAPITAL COSTS	\$0.00	\$18.00	\$21.14	\$57.29	\$35.40	\$6.82
RETURN TO LAND AND RISK	(\$140.86)	\$434.28	\$249.76	\$10.98	(\$66.33)	\$60.78

Flex Computation

307.83 131.43 24.50

TABLE 13. Whole farm summary, Union County,
Projected 2009.

GROSS RETURNS		
ALFALFA HAY	375 ACRES	
CROP		\$341,250
WHEAT	420.00 ACRES	
CROP		\$201,600
GRAZING		\$16,800
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	127.50 ACRES	
CROP		\$104,550
GRAZING		\$2,550
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	127.5 ACRES	
CROP		\$44,179
GRAZING		\$638
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
HAYGRAZER/MILLET	190 ACRES	
CROP		\$32,775
GROSS RETURN		<u>\$744,341</u>
CASH OPERATING EXPENSES		
SEED		\$26,799
FERTILIZER		\$91,190
CHEMICALS		\$14,129
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$69
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$25,363
FUEL-IRRIGATION		\$103,483
REPAIRS		\$6,498
CUSTOM CHARGES		\$0
LAND TAXES		\$246
OTHER EXPENSES		\$51,792
TOTAL CASH EXPENSES		<u>\$319,718</u>
RETURN OVER CASH EXPENSES		\$424,623
FIXED EXPENSES		\$45,480
TOTAL EXPENSES		\$365,198
NET FARM INCOME		\$379,143
LABOR AND MANAGEMENT COSTS		\$78,358
NET OPERATING PROFIT		\$300,785
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$7,072
INTEREST ON EQUIPMENT INVESTMENT		\$21,670
TOTAL CAPITAL COSTS		<u>\$28,742</u>
RETURN TO LAND AND RISK		<u>\$272,043</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$252,843	33.01%
\$750 /ACRE	\$243,243	24.43%
\$1,000 /ACRE	\$233,643	19.39%
\$1,250 /ACRE	\$224,043	16.08%
\$1,500 /ACRE	\$214,443	13.73%

* 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)