

TABLE 1. Acreage Summary, Union County, Projected 2013.

BUDGET AREA..... UNION COUNTY			
FARM SIZE..... 1,280 ACRES			
IRRIGATION TYPE..... SPRINKLER			
NUMBER OF CROPS.. 4			
		WATER USE	
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
WHEAT	446.25	11	4,909
ARP	0.00		
FLEX IN WHEAT	78.75	11	866
CORN	178.50	34	6,069
ARP	0.00		
FLEX IN WHEAT	31.50	11	347
GRAIN SORGHUM	267.75	12	3,213
ARP	0.00		
FLEX IN WHEAT	47.25	11	520
HAYGRAZER	190.00		
ROADS, HOMESTEAD	40.00		
TOTAL	1,280.00		15,923
ACRE FEET PER ACRE OF WATER RIGHTS			1.04

TABLE 2. Basic cost information for Union County, Projected 2013.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$8.55
General & Irrigators	\$/hour	\$7.50
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.61
Phosphate (P205)	\$/pound	\$0.60
Seed:		
Wheat	\$/pound	\$0.65
Corn for Grain	\$/bag	\$242.80
Grain Sorghum	\$/pound	\$2.04
Haygrazer/Millet	\$/pound	\$0.94
Natural gas	\$/MCF	\$4.00
(service charge)	\$/month	\$10.00
Diesel fuel	\$/gallon	\$3.00
Gasoline	\$/gallon	\$3.80
Electricity	cents/KwHr	7.94
LP Gas	\$/gallon	\$2.80
Baling Twine	\$/roll	\$0.64
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	5.00%
Land Interest Rate	percent	5.00%
Equipment Interest Rate	percent	5.00%
Real Interest Rate	percent	3.00%
Land Taxes	\$27.00 /acre	\$0.23
Personal Property Tax Rate	- NR - R	\$/ \$1,000 (Assessed Value) \$28.63
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 2013.

Item		
Electricity (Domestic & Shop)	\$484.00 per month	\$5,808
Telephone	\$235.95 per month	\$2,831
Accounting & Legal		\$3,576
Misc. Supplies & Hand Tools		\$4,338
Pickup and Auto		
miles	37,510 @ \$0.500 per mile	\$18,755
Insurance		
- general liability (non-employee)		\$4,459
- fire/theft		\$2,263
Property Taxes		
- non-planted land		\$0
- other than land & machinery		\$6,010
Building repairs and maintenance		\$1,888
Dues, fees, publications		\$436
Farmstead Equipment		\$284
Total		\$50,647
Total per planted acre		\$39.63
Total per dryland acre		\$7.93

TABLE 4. Pumping costs and data for irrigation wells, Union County, Projected 2013

INPUT DATA	
DELIVERY PSI	30
DEPTH CHARACTERISTICS:	
STATIC	180
DRAW DOWN	50
TOTAL HEAD	230
CASING	400
GALLONS PER MINUTE (GPM)	700.00
WORK HORSEPOWER	92.91
EFFICIENCY FACTOR:	
ELECTRICITY	0.540
NATURAL GAS	0.140
LP GAS	0.140
DIESEL	0.180
FUEL COST PER UNIT:	
ELECTRICITY	7.94 CENTS/KWH
NATURAL GAS	\$4.00 BCF
LP GAS	\$3.80 SGAL
DIESEL	\$3.00 SGAL
FUEL PUMPING COSTS	
ELECTRIC WELL:	
COST PER HOUR	\$5.84
COST PER ACRE INCH	\$3.77
NATURAL GAS WELL:	
COST PER HOUR	\$4.26
COST PER ACRE INCH	\$2.75
LP GAS WELL:	
COST PER HOUR	\$3.38
COST PER ACRE INCH	\$1.97
DIESEL WELL:	
COST PER HOUR	\$15.87
COST PER ACRE INCH	\$10.26

TABLE 5. Equipment summary for a 1,280 acre sprinkler-irrigated farm with above average management, Union County, Projected 2013

EQUIPMENT ITEM SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS				FIXED COSTS		TOTAL PER HR	
			TOTAL VALUE	FUEL OIL LUBRICANT	REPAIR PER HR	FUEL OIL PER HR	DEPRECIATION	TAXES		
TRACTOR 95 HP	158	1	\$17,335	\$3,649	\$149	\$21.14	\$0.34	\$625	\$86	\$3.74
TRACTOR 128 HP	244	1	\$33,817	\$6,028	\$867	\$24.75	\$3.97	\$2,647	\$276	\$12.20
TRACTOR 185 HP	301	1	\$43,057	\$11,223	\$2,543	\$31.08	\$5.66	\$6,284	\$793	\$18.49
CORBINE 145 HP	158	1	\$51,077	\$3,862	\$419	\$25.96	\$2.66	\$8,864	\$554	\$9.72
SWATHER 14 FT	30	1	\$3,500	\$341	\$18	\$11.23	\$0.38	\$1,460	\$121	\$5.67
ROUND BALE 32	32	1	\$3,500	\$341	\$18	\$11.23	\$0.38	\$650	\$46	\$3.45
PLANTER 8 ROW	54	1	\$5,500	\$541	\$254	\$2.64	\$1.50	\$46	\$21.40	\$2.40
DISC 28 FT	174	1	\$10,000	\$2144	\$228	\$12.40	\$2.09	\$228	\$14	\$2.09
ROLLING CULTIVATOR 8 ROW	62	1	\$4,000	\$310	\$4.96	\$0.33	\$33	\$33	\$9.07	\$0.33
DRILL 21 FT	96	1	\$3,800	\$195	\$1.73	\$1.33	\$30	\$70	\$7.87	\$1.33
CORN HEAD 8 ROW	36	1	\$9,000	\$1	\$0.00	\$7.87	\$104	\$610	\$14	\$7.87
GRAN TABLE 22 FT	122	1	\$4,150	\$156	\$1.28	\$0.71	\$31	\$31	\$4.27	\$1.28
SPRAYER 30 FT	46	1	\$1,500	\$50	\$4.72	\$4.72	\$15	\$15	\$4.72	\$4.72
GRAN CART 158	1	1	\$3,100	\$0	\$0.00	\$413	\$28	\$2.78	\$2.78	\$2.78
SEMI TRACTOR/BALER 120	1	1	\$17,500	\$1,884	\$337	\$19.75	\$2.80	\$3,500	\$146	\$33.33
TANDEM AXLE TRUCK 37	1	1	\$10,000	\$472	\$15	\$12.00	\$0.40	\$2,000	\$83	\$9.50
MINI-DATOR SPRINKLER 10,256	2	2	\$6,800	\$0	\$0	\$0.00	\$0.00	\$767	\$47	\$0.38
CENTER PIVOT SPRINKLER 10,256	2	2	\$15,000	\$0	\$0	\$0.00	\$0.00	\$2,000	\$125	\$0.21
NATURAL GAS WELL 10,256	1	1	\$16,900	\$43,726	\$0	\$4.25	\$0.00	\$1,362	\$141	\$5.16
			\$267,704	\$71,286	\$7,212			\$36,607	\$2,379	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUIP CODE	MX HOURS	FUEL LMT/HR	LUBE COEF	ACCUM HOURS	INTEREST AGE	EXPENSE
TRACTOR 95 HP	19735.00	17334.50	30.00	1.00	800.00	5.54	0.10	3607.33	23.00	303.38
TRACTOR 128 HP	60185.00	33616.50	25.00	1.00	800.00	7.00	0.10	4384.35	16.00	1654.63
TRACTOR 185 HP	94265.00	43056.50	15.00	1.00	800.00	8.42	0.10	3972.65	11.00	2366.63
CORBINE 145 HP	52065.00	51076.50	15.00	2.00	300.00	6.96	0.20	2052.63	13.00	3323.88
SWATHER 14 FT	2900.00	3000.00	20.00	2.00	800.00	3.12	0.20	425.60	14.00	725.00
ROUND BALE 32	11000.00	3000.00	20.00	2.00	500.00	0.00	0.00	303.00	10.00	275.00
PLANTER 8 ROW	11000.00	5000.00	10.00	8.00	100.00	0.00	0.00	896.15	13.00	275.00
DISC 28 FT	30000.00	16500.00	15.00	3.00	300.00	0.00	0.00	1674.60	15.00	85.00
ROLLING CULTIVATOR 8 ROW	8000.00	4000.00	15.00	3.00	300.00	0.00	0.00	998.60	16.00	200.00
DRILL 21 FT	30000.00	10000.00	15.00	3.00	300.00	0.00	0.00	2779.60	16.00	500.00
CORN HEAD 8 ROW	7000.00	3000.00	10.00	8.00	100.00	0.00	0.00	1238.25	13.00	180.00
GRAN TABLE 22 FT	7500.00	4150.00	15.00	2.00	300.00	0.00	0.20	1952.16	16.00	188.00
SPRAYER 30 FT	2000.00	1500.00	15.00	8.00	150.00	0.00	0.00	892.39	15.00	150.00
GRAN CART 158	6200.00	3100.00	15.00	8.00	150.00	0.00	0.00	2881.07	17.00	150.00
SEMI TRACTOR/BALER 120	20000.00	17500.00	10.00	5.00	800.00	0.00	0.05	1322.48	11.00	875.00
TANDEM AXLE TRUCK 37	20000.00	10000.00	10.00	2.00	400.00	4.00	0.05	289.88	8.00	590.00
MINI-DATOR SPRINKLER 10,256	5000.00	2800.00	15.00	0.00	8742.00	0.00	0.00	7773.70	15.00	140.00
CENTER PIVOT SPRINKLER 10,256	30000.00	15000.00	15.00	0.00	8742.00	0.00	0.00	15441.40	15.00	750.00
NATURAL GAS WELL 10,256	38000.00	16900.00	25.00	0.00	8742.00	0.00	0.00	15441.40	15.00	845.00

INTEREST PROTRATION

WHEAT	CORN FOR GRAN		GRAN HAYGRAZER	
	WHEAT	GRAN	SORGHUM	MILLET
0.25	0.30	0.35	0.00	0.00
0.82	2.17	1.49	1.97	0.00
1.20	2.81	1.94	1.94	0.00
2.95	4.22	2.56	0.00	0.00
0.00	0.00	0.00	3.82	0.00
0.00	0.00	0.00	1.45	0.00
0.00	0.00	0.00	0.62	0.00
0.07	0.07	0.07	0.07	0.00
0.00	0.04	0.52	0.00	0.00
0.40	0.49	0.49	0.20	0.00
0.23	0.00	0.00	0.23	0.00
0.00	3.50	0.00	0.00	0.00
0.00	0.64	0.00	0.00	0.00
0.00	0.17	0.00	0.00	0.00
0.14	0.20	0.14	0.00	0.00
1.02	1.46	0.00	0.00	0.00
0.00	0.00	1.87	0.00	0.00
0.10	0.30	0.11	0.00	0.00
0.82	1.40	0.57	0.00	0.00
0.58	1.80	0.84	0.00	0.00
8.88	20.53	12.79	8.77	0.00

USAGE LIST

WHEAT	CORN FOR GRAN		HAYGRAZER		PER ACRE
	WHEAT	GRAN	SORGHUM	MILLET	
0.14	0.20	0.14	0.00	0.48	
0.32	0.43	0.22	0.29	0.95	
0.23	0.43	0.16	1.25		
0.14	0.00	0.14	0.48		
0.00	0.00	0.00	0.16	0.16	
0.00	0.12	0.12	0.00	0.24	
0.00	0.00	0.00	0.36		
0.00	0.50	0.10	0.00	0.30	
0.14	0.17	0.17	0.07	0.55	
0.12	0.00	0.12	0.24		
0.00	0.20	0.00	0.20		
0.14	0.00	0.14	0.00	0.28	
0.14	0.20	0.00	0.24		
0.14	0.20	0.14	0.00	0.48	
0.14	0.20	0.00	0.24		
0.00	0.00	0.14	0.00	0.14	
0.14	21.98	7.76	0.00	36.85	
7.11	21.98	7.76	0.00	36.85	

WHEAT ACRES: 603.75 PUMP WATER: 11.00

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
DISC	185 HP	1.00	0.07	0.07	0.07			
CHESE	185 HP	1.00	0.09	0.09	0.09			
DISC	185 HP	1.00	0.07	0.07	0.07			
DRILL	120 HP	1.00	0.12	0.12	0.12			
IRIGATE (70)		7.00	0.65	7.11				

CORN FOR GRAN ACRES: 178.5 PUMP WATER: 34.00

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
DISC	185 HP	1.00	0.07	0.07	0.07			
CHESE	185 HP	1.00	0.09	0.09	0.09			
DISC SPRAY	185 HP	1.00	0.10	0.10	0.10			
PLANTER	120 HP	1.00	0.12	0.12	0.12			
ROLLER CULT (2)	120 HP	2.00	0.10	0.20	0.20			
SEEDRESS	185 HP	1.00	0.17	0.17	0.17			
IRIGATE (16)		16.00	0.65	21.98				

CORN HEAD ACRES: 0.20 PUMP WATER: 0.20

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
COMBINE	GRAN TABLE	1.00	0.14	0.14	0.14			
GRAN CART	93 HP	1.00	0.14	0.14	0.14			
HULL	SEM	1.00	0.14	0.14	0.14			

GRAN SORGHUM ACRES: 267.75 PUMP WATER: 12.00

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
DISC	185 HP	1.00	0.07	0.07	0.07			
CHESE	185 HP	1.00	0.09	0.09	0.09			
DISC SPRAY	185 HP	1.00	0.10	0.10	0.10			
PLANTER	120 HP	1.00	0.12	0.12	0.12			
ROLLER CULT (2)	120 HP	2.00	0.10	0.20	0.20			
SEEDRESS	185 HP	1.00	0.17	0.17	0.17			
IRIGATE (70)		7.00	0.65	7.76				

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
COMBINE	GRAN TABLE	1.00	0.14	0.14	0.14			
GRAN CART	93 HP	1.00	0.14	0.14	0.14			
HULL	2 TON	1.00	0.14	0.14	0.14			

HAYGRAZER/MILLET ACRES: 190 PUMP WATER: 0.00

MACHINE	UNIT	POWER		TIMES		RATE	TOTAL	CUSTOM
		OVER	RATE	OVER	RATE			
CHESE	185 HP	1.00	0.09	0.09	0.09			
DISC	185 HP	1.00	0.07	0.07	0.07			

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2013.
 Planting dates: August 15 - November 15
 Harvesting dates: July 1 - July 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
WHEAT	\$7.75	80.00 BUSHELS		\$620.00
DIRECT PAYMENT	\$0.00	80.00 BUSHELS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$37.50	1.00 ACRE		\$37.50
TOTAL				\$657.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.65	100 LBS	\$65.00		\$65.00
MANURE	\$2.70	8 TON	\$21.60		\$21.60
LIVESTOCK FAC & EQUIP PUMP WATER*		11 AC. IN.		\$5.00	\$5.00
CROP INSURANCE	\$0.08				\$0.08
SUBTOTAL			\$86.60	\$5.00	\$91.68

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.18	\$1.26	\$1.87	\$5.90
CHISEL	185 HP	0.09 HR		\$0.77	\$2.80	\$0.69	\$1.85	\$6.11
DISC	185 HP	0.07 HR		\$0.60	\$2.18	\$1.26	\$1.87	\$5.90
DRILL	126 HP	0.12 HR		\$1.03	\$2.97	\$0.68	\$2.39	\$7.06
IRRIGATE (7X)		0.70 HR		\$5.25	\$30.21	\$0.00	\$3.13	\$38.59
SUBTOTAL		1.05 HR		\$8.24	\$40.32	\$3.90	\$11.10	\$63.57

HARVEST OPERATIONS	GRAIN TABLE	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE		0.14 HR		\$1.20	\$3.51	\$0.55	\$8.97	\$14.23
GRAIN CART	93 HP	0.14 HR		\$1.20	\$3.24	\$0.13	\$0.91	\$5.48
HAUL	SEMI	0.14 HR		\$1.20	\$2.21	\$0.39	\$4.25	\$8.04
SUBTOTAL		0.42 HR	\$0.00	\$3.59	\$8.95	\$1.08	\$14.13	\$27.75

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.19 HR		\$1.65				\$1.65
EMPLOYEE BENEFITS			\$2.13				\$2.13
INSURANCE		\$0.24					\$0.24
LAND TAXES						\$0.23	\$0.23
SUPERVISION AND MANAGEMENT			\$47.11				\$47.11
OTHER EXPENSES		\$39.63					\$39.63
SUBTOTAL	0.19 HR	\$39.87	\$50.89			\$0.23	\$90.98

TOTAL OPERATING EXPENSES	1.66 HR	\$126.47	\$62.72	\$49.28	\$4.98	\$30.45	\$273.98
---------------------------------	----------------	-----------------	----------------	----------------	---------------	----------------	-----------------

NET OPERATING PROFIT							\$383.52
-----------------------------	--	--	--	--	--	--	-----------------

INTEREST ON OPERATING CAPITAL	(\$55.23	@	5.00%)		\$2.76
INTEREST ON EQUIPMENT INVESTMENT							\$8.88

RETURN TO LAND AND RISK							\$371.88
--------------------------------	--	--	--	--	--	--	-----------------

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

BUDGET SUMMARY

GROSS RETURN		\$657.50	
VARIABLE OPERATING EXPENSES	\$180.72		
RETURN OVER VARIABLE EXPENSES		\$476.78	(GROSS MARGIN)
FIXED EXPENSES	\$30.45		
NET FARM INCOME		\$446.32	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$62.72		
NET OPERATING PROFIT		\$383.60	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$11.64		
RETURN TO LAND AND RISK		\$371.96	

TABLE 7. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2013.
 Planting dates: April 15 - May 15
 Harvesting dates: October 1 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
CORN FOR GRAIN	\$6.35	200.00 BUSHELS		\$1,270.00
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				\$1,290.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$3.04	26 000	\$78.91		\$78.91
NITROGEN (N)	\$0.61	220 LBS	\$134.20		\$134.20
PHOSPHATE (P2O5)	\$0.60	70 LBS	\$42.00		\$42.00
POTASSIUM (K-MAG)	\$0.12	300 LBS	\$34.50		\$34.50
INSECTICIDE	\$20.48	3 ACRE	\$61.44		\$61.44
HERBICIDE	\$28.16	1 ACRE	\$28.16		\$28.16
LIVESTOCK FAC & EQUIP				\$5.00	\$5.00
PUMP WATER*		34 AC. IN.			\$0.28
CROP INSURANCE	\$0.28				\$0.28
SUBTOTAL			\$379.21	\$5.00	\$384.49

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.18	\$1.26	\$1.87	\$5.90
CHISEL	185 HP	0.09 HR		\$0.77	\$2.80	\$0.69	\$1.85	\$6.11
DISC & SPRAY	185 HP	0.10 HR		\$0.86	\$3.11	\$1.88	\$3.14	\$8.98
PLANTER	126 HP	0.12 HR		\$1.03	\$2.97	\$0.79	\$4.01	\$8.80
ROLLING CULT (2X)	126 HP	0.20 HR		\$1.71	\$4.95	\$1.79	\$4.21	\$12.66
SIDEDRESS	185 HP	0.17 HR		\$1.45	\$5.28	\$0.96	\$3.14	\$10.84
IRRIGATE (16X)		1.60 HR		\$12.00	\$93.37	\$0.00	\$9.68	\$115.04
SUBTOTAL		2.35 HR		\$18.41	\$114.65	\$7.38	\$27.90	\$168.34

HARVEST OPERATIONS								
COMBINE	CORN HEAD	0.20 HR		\$1.71	\$5.01	\$0.93	\$21.86	\$29.52
GRAIN CART	93 HP	0.20 HR		\$1.71	\$4.63	\$0.19	\$1.31	\$7.83
HAUL	SEMI	0.20 HR		\$1.71	\$3.15	\$0.56	\$6.07	\$11.49
SUBTOTAL		0.60 HR		\$0.00	\$5.13	\$12.79	\$1.68	\$29.23

OVERHEAD EXPENSES								
DOWNTIME		0.30 HR		\$2.52				\$2.52
EMPLOYEE BENEFITS				\$4.24				\$4.24
INSURANCE				\$0.47				\$0.47
LAND TAXES							\$0.23	\$0.23
SUPERVISION AND MANAGEMENT				\$93.54				\$93.54
OTHER EXPENSES				\$39.63				\$39.63
SUBTOTAL		0.30 HR		\$40.10	\$100.30		\$0.23	\$140.63

TOTAL OPERATING EXPENSES		3.25 HR		\$419.31	\$123.84	\$127.44	\$9.06	\$62.36	\$742.29
---------------------------------	--	----------------	--	-----------------	-----------------	-----------------	---------------	----------------	-----------------

NET OPERATING PROFIT									\$547.71
-----------------------------	--	--	--	--	--	--	--	--	-----------------

INTEREST ON OPERATING CAPITAL	(\$232.00	@	5.00%)				\$11.60
INTEREST ON EQUIPMENT INVESTMENT									\$20.53

RETURN TO LAND AND RISK									\$515.58
--------------------------------	--	--	--	--	--	--	--	--	-----------------

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

BUDGET SUMMARY

GROSS RETURN		\$1,290.00	
VARIABLE OPERATING EXPENSES	\$555.80		
RETURN OVER VARIABLE EXPENSES	\$734.20	(GROSS MARGIN)	
FIXED EXPENSES	\$62.36		
NET FARM INCOME	\$671.84	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$123.84		
NET OPERATING PROFIT	\$547.99	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$32.13		
RETURN TO LAND AND RISK	\$515.86		

TABLE 8. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2013.
 Planting dates: May 15 - June 15
 Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
GRAIN SORGHUM	\$10.43	45.00 CWT		\$469.45
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				\$474.45

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$2.04	5 LBS	\$10.20		\$10.20
NITROGEN (N)	\$0.61	150 LBS	\$91.50		\$91.50
PHOSPHATE (P205)	\$0.60	50 LBS	\$30.00		\$30.00
HERBICIDE	\$28.16	1 ACRE	\$28.16		\$28.16
LIVESTOCK FAC & EQUIP PUMP WATER*		12 AC. IN.		\$5.00	\$5.00
CROP INSURANCE	\$0.19				\$0.19
SUBTOTAL			\$159.86	\$5.00	\$165.05

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.60	\$2.18	\$1.26	\$1.87	\$5.90
CHISEL	185 HP	0.09 HR		\$0.77	\$2.80	\$0.69	\$1.85	\$6.11
DISC & SPRAY	185 HP	0.10 HR		\$0.86	\$3.11	\$1.88	\$3.14	\$8.98
PLANTER	126 HP	0.12 HR		\$1.03	\$2.97	\$0.79	\$4.01	\$8.80
ROLLING CULT.	126 HP	0.10 HR		\$0.86	\$2.47	\$0.89	\$2.11	\$6.33
SIDEDRESS	185 HP	0.17 HR		\$1.45	\$5.28	\$0.96	\$3.14	\$10.84
IRRIGATE (6X)		0.60 HR		\$4.50	\$32.95	\$0.00	\$3.41	\$40.87
SUBTOTAL		1.25 HR		\$10.06	\$51.76	\$6.48	\$19.53	\$87.83

HARVEST OPERATIONS	GRAIN TABLE	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	GRAIN TABLE	0.14 HR		\$1.20	\$3.51	\$0.55	\$8.97	\$14.23
GRAIN TABLE	93 HP	0.14 HR		\$1.20	\$3.24	\$0.13	\$0.91	\$5.48
HAUL	2 TON	0.14 HR		\$1.20	\$1.76	\$0.06	\$7.78	\$10.80
SUBTOTAL		0.42 HR	\$0.00	\$3.59	\$8.51	\$0.74	\$17.67	\$30.51

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.23 HR		\$1.92				\$1.92
EMPLOYEE BENEFITS			\$2.46				\$2.46
INSURANCE		\$0.27					\$0.27
LAND TAXES						\$0.23	\$0.23
SUPERVISION AND MANAGEMENT			\$34.47				\$34.47
OTHER EXPENSES		\$39.63					\$39.63
SUBTOTAL	0.23 HR	\$39.90	\$38.85			\$0.23	\$78.98

TOTAL OPERATING EXPENSES 1.90 HR \$199.76 \$52.50 \$60.27 \$7.22 \$42.42 \$362.37

NET OPERATING PROFIT \$112.08

INTEREST ON OPERATING CAPITAL (\$95.35 @ 5.00%) \$4.77
 INTEREST ON EQUIPMENT INVESTMENT \$12.79

RETURN TO LAND AND RISK \$94.52

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

BUDGET SUMMARY

GROSS RETURN	\$474.45	
VARIABLE OPERATING EXPENSES	\$267.26	
RETURN OVER VARIABLE EXPENSES	\$207.19	(GROSS MARGIN)
FIXED EXPENSES	\$42.42	
NET FARM INCOME	\$164.77	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$52.50	
NET OPERATING PROFIT	\$112.27	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$17.56	
RETURN TO LAND AND RISK	\$94.71	

TABLE 9. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2013.
 Planting dates: June 1 - June 15
 Harvesting dates: September 1 - September 15

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
HAY	\$210.00	1.50 TONS (STACKED)						\$315.00	
TOTAL								\$315.00	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.94	6.00 LBS		\$5.64					\$5.64
HERBICIDE	\$14.79	1.00 ACRE		\$14.79					\$14.79
BALING TWINE	\$0.64	0.13 ROLL		\$0.09					\$0.09
SUBTOTAL				\$20.52					\$20.52
PREHARVEST OPERATIONS		POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.09 HR			\$0.77	\$2.80	\$0.69	\$1.85	\$6.11
DISC	185 HP	0.07 HR			\$0.60	\$2.18	\$1.26	\$1.87	\$5.90
DRILL	126 HP	0.12 HR			\$1.03	\$2.97	\$0.68	\$2.39	\$7.06
SUBTOTAL		0.28 HR			\$2.39	\$7.94	\$2.64	\$6.10	\$19.08
HARVEST OPERATIONS									
SWATHER		0.16 HR			\$1.37	\$1.80	\$0.09	\$8.27	\$11.53
BALER	126 HP	0.17 HR			\$1.45	\$4.21	\$0.71	\$5.18	\$11.55
SUBTOTAL		0.33 HR		\$0.00	\$2.82	\$6.00	\$0.81	\$13.44	\$23.08
OVERHEAD EXPENSES									
DOWNTIME		0.15 HR			\$1.30				\$1.30
EMPLOYEE BENEFITS					\$0.94				\$0.94
INSURANCE				\$0.10					\$0.10
LAND TAXES							\$0.23		\$0.23
SUPERVISION AND MANAGEMENT					\$22.36				\$22.36
OTHER EXPENSES				\$7.93					\$7.93
SUBTOTAL		0.15 HR		\$8.03	\$24.60		\$0.23		\$32.85
TOTAL OPERATING EXPENSES		0.43 HR		\$28.55	\$29.81	\$13.95	\$3.45	\$19.77	\$95.53
NET OPERATING PROFIT									\$219.47
INTEREST ON OPERATING CAPITAL			(\$13.47 @ 5.00%)						\$0.67
INTEREST ON EQUIPMENT INVESTMENT									\$8.77
RETURN TO LAND AND RISK									\$210.03

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

BUDGET SUMMARY

GROSS RETURN		\$315.00	
VARIABLE OPERATING EXPENSES	\$45.94		
RETURN OVER VARIABLE EXPENSES		\$269.06	(GROSS MARGIN)
FIXED EXPENSES	\$19.77		
NET FARM INCOME		\$249.29	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$29.81		
NET OPERATING PROFIT		\$219.47	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$9.45		
RETURN TO LAND AND RISK		\$210.03	

TABLE 10. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2013.

	WHEAT	CORN FOR GRAIN	GRAIN SORGHUM	HAYGRAZER & MILLET
	BU	BU	CWT	(Dryland) TONS
PRIMAR YIELD	80.00	200.00	45.00	1.50
PRIMARY PRICE	\$7.75	\$6.35	\$10.43	\$210.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME	\$37.50	\$20.00	\$5.00	\$0.00
GROSS RETURN	\$657.50	\$1,290.00	\$474.45	\$315.00
CASH OPERATING EXPENSES				
SEED	\$65.00	\$78.91	\$10.20	\$5.64
FERTILIZER	\$21.60	\$210.70	\$121.50	
CHEMICALS		\$89.60	\$28.16	\$14.79
CROP INSURANCE	\$0.08	\$0.28	\$0.19	
OTHER PURCHASED INPUTS				\$0.09
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$19.07	\$34.07	\$27.32	\$13.95
FUEL-IRRIGATION	\$30.21	\$93.37	\$32.95	
REPAIRS	\$4.98	\$9.06	\$7.22	\$3.45
CUSTOM CHARGES				\$0.00
LAND TAXES	\$0.23	\$0.23	\$0.23	\$0.23
OTHER EXPENSES	\$39.87	\$40.10	\$39.90	\$8.03
TOTAL CASH EXPENSES	\$181.03	\$556.31	\$267.67	\$46.16
RETURN OVER CASH EXPENSES	\$476.47	\$733.69	\$206.78	\$268.84
FIXED EXPENSES	\$30.23	\$62.13	\$42.20	\$19.55
TOTAL EXPENSES	\$211.26	\$618.44	\$309.87	\$65.71
NET FARM INCOME	\$446.24	\$671.56	\$164.58	\$249.29
LABOR AND MANAGEMENT COSTS	\$62.72	\$123.84	\$52.50	\$29.81
NET OPERATING PROFIT	\$383.52	\$547.71	\$112.08	\$219.47
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL	\$2.76	\$11.60	\$4.77	\$0.67
INTEREST ON EQUIPMENT INVESTMENT	\$8.88	\$20.53	\$12.79	\$8.77
TOTAL CAPITAL COSTS	\$11.64	\$32.13	\$17.56	\$9.45
RETURN TO LAND AND RISK	\$371.88	\$515.58	\$94.52	\$210.03
Flex Computation	410.99	598.25	149.51	

TABLE 11. Whole farm summary, Union County,
Projected 2013.

GROSS RETURNS		
WHEAT	604 ACRES	
CROP		\$374,325
GRAZING		\$22,641
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	179 ACRES	
CROP		\$226,695
GRAZING		\$3,570
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	268 ACRES	
CROP		\$125,694
GRAZING		\$1,339
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
HAYGRAZER/MILLET	190 ACRES	
CROP		\$59,850
GROSS RETURN		<u>\$814,114</u>
CASH OPERATING EXPENSES		
SEED		\$57,132
FERTILIZER		\$83,183
CHEMICALS		\$26,344
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$16
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$27,559
FUEL-IRRIGATION		\$43,726
REPAIRS		\$7,212
CUSTOM CHARGES		\$0
LAND TAXES		\$279
OTHER EXPENSES		\$43,437
TOTAL CASH EXPENSES		<u>\$289,038</u>
RETURN OVER CASH EXPENSES		\$525,075
FIXED EXPENSES		\$44,354
TOTAL EXPENSES		\$333,393
NET FARM INCOME		\$480,721
LABOR AND MANAGEMENT COSTS		\$79,694
NET OPERATING PROFIT		\$401,027
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$5,143
INTEREST ON EQUIPMENT INVESTMENT		\$14,119
TOTAL CAPITAL COSTS		<u>\$19,262</u>
RETURN TO LAND AND RISK		<u>\$381,765</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$362,565	44.47%
\$750 /ACRE	\$352,965	32.83%
\$1,000 /ACRE	\$343,365	26.01%
\$1,250 /ACRE	\$333,765	21.54%
\$1,500 /ACRE	\$324,165	18.38%

* 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)