

TABLE 1. Acreage Summary, Union County, Projected 2005.

BUDGET AREA..... UNION COUNTY	
FARM SIZE.....	1,280 ACRES
IRRIGATION TYPE.....	SPRINKLER
NUMBER OF CROPS....	4

  

ACREAGE SUMMARY:	WATER USE		
	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		
<b>TOTAL</b>	<b>1,280.00</b>		<b>15,923</b>
ACRE FEET PER ACRE OF WATER RIGHTS			1.04

TABLE 2. Basic cost information for Union County, Projected 2005.

Item			
<b>Labor Wage Rate:</b>			
Equipment operators	\$/hour		\$7.45
General & Irrigators	\$/hour		\$6.60
<b>Purchased Inputs:</b>			
<b>Fertilizer:</b>			
Nitrogen (N)	\$/pound		\$0.40
Phosphate (P205)	\$/pound		\$0.31
<b>Seed:</b>			
Wheat	\$/pound		\$0.24
Corn for Grain	\$/bag		\$85.00
Grain Sorghum	\$/pound		\$1.23
Haygrazer/Millet	\$/pound		\$0.31
Natural gas	\$/MCF		\$3.28
(service charge)	\$/month		\$10.00
Diesel fuel	\$/gallon		\$2.10
Gasoline	\$/gallon		\$2.00
Electricity	cents/KwHr		6.78
LP Gas	\$/gallon		\$1.65
Baling Twine	\$/roll		\$0.21
Employee Liability Insurance	\$/(\$1,000 wages)		\$20.00
Employee Benefits	percent/wages		18.00%
Labor Downtime	percent		25.00%
<b>Financial Rates:</b>			
Operating Capital Interest Rate	percent		7.00%
Land Interest Rate	percent		7.00%
Equipment Interest Rate	percent		7.00%
Real Interest Rate	percent		3.00%
Land Taxes	\$27.00 /acre		\$0.30
Personal Property Tax Rate	- NR	-\$/1,000	(Assessed Value) \$33.75
	- R		\$26.10
<b>Supervision Factors</b>			
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 2005.

Item			
Electricity (Domestic & Shop)		\$215.00 per month	\$2,580
Telephone		\$115.00 per month	\$1,380
Accounting & Legal			\$1,525
Misc. Supplies & Hand Tools			\$1,430
Pickup and Auto			
miles	20,034	@ \$0.365 per mile	\$7,312
<b>Insurance</b>			
- general liability (non-employee)			\$1,710
- fire/theft			\$1,525
<b>Property Taxes</b>			
- non-planted land			\$0
- other than land & machinery			\$6,010
Building repairs and maintenance			\$1,290
Dues, fees, publications			\$405
Farmstead Equipment			\$185
Total			\$25,352
Total per planted acre			\$19.84
Total per dryland acre			\$3.97

TABLE 4. Pumping costs and data for irrigation wells, Union County  
Projected 2005.

INPUT DATA	
DELIVERY PSI: SPRINKLER	30
DEPTH CHARACTERISTICS:	
STATIC.....	180
DRAW DOWN.....	50
TOTAL HEAD.....	230
CASING.....	400
GALLONS PER MINUTE (GPM)	700.00
WORK HORSEPOWER	52.91
EFFICIENCY FACTOR:	
ELECTRICITY	0.540
NATURAL GAS	0.140
LP GAS	0.140
DIESEL	0.180
FUEL COST PER UNIT:	
ELECTRICITY	6.78 CENTS/KwHr
NATURAL GAS	\$3.28 \$/MCF
LP GAS	\$1.65 \$/GAL
DIESEL	\$2.10 \$/GAL
FUEL PUMPING COST	
ELECTRIC WELL:	
COST PER HOUR	\$4.99
COST PER ACRE INCH	\$3.22
NATURAL GAS WELL:	
COST PER HOUR	\$3.49
COST PER ACRE INCH	\$2.26
LP GAS WELL:	
COST PER HOUR	\$17.31
COST PER ACRE INCH	\$11.19
DIESEL WELL:	
COST PER HOUR	\$11.12
COST PER ACRE INCH	\$7.19

TABLE 5. Equipment summary for a 1,280 acre sprinkler-irrigated farm with above average management, Union County,  
Projected 2005.

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		
				FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR
TRACTOR 95 HP	158	1	\$9,473	\$1,921	\$327	\$12.18	\$2.07	\$1,152	\$194	\$8.53
TRACTOR 126 HP	244	1	\$19,725	\$4,219	\$746	\$17.32	\$3.06	\$2,043	\$287	\$9.57
TRACTOR 185 HP	361	1	\$44,016	\$7,856	\$2,089	\$21.75	\$5.79	\$6,428	\$542	\$19.30
COMBINE 145 HP	158	1	\$53,537	\$2,766	\$419	\$17.54	\$2.66	\$8,866	\$748	\$60.96
SWATHER 14 FT	30	1	\$3,900	\$239	\$18	\$7.86	\$0.58	\$1,450	\$163	\$53.06
ROUND BALER	32	1	\$3,500		\$7		\$0.22	\$550	\$62	\$18.94
PLANTER 8 ROW	54	1	\$5,500		\$141		\$2.64	\$1,100	\$62	\$21.70
CHISEL HAYMIE 21 FT	112	1	\$1,650		\$228		\$2.05	\$220	\$19	\$2.14
ROLLING CULTIVATOI 8 ROW	62	1	\$4,000		\$310		\$4.96	\$533	\$45	\$9.26
DISC 28 FT	174	1	\$10,000		\$2,154		\$12.40	\$1,333	\$113	\$8.32
DRILL 21 FT	95	1	\$3,600		\$165		\$1.73	\$720	\$41	\$7.98
CORN HEAD 8 ROW	36	1	\$9,820		\$71		\$2.00	\$1,667	\$141	\$50.62
GRAIN TABLE 22 FT	122	1	\$4,150		\$156		\$1.28	\$501	\$42	\$4.46
SPRAYER 30 FT	45	1	\$1,500		\$32		\$0.72	\$200	\$17	\$4.86
GRAIN CART	158	1	\$3,100		\$0		\$0.00	\$413	\$35	\$2.84
SEMI-TRACTOR/TRAILER	120	1	\$17,500	\$1,325	\$337	\$11.03	\$2.80	\$3,500	\$197	\$30.75
TANDEM-AXLE TRUCK	37	1	\$10,000	\$331	\$15	\$8.82	\$0.40	\$2,000	\$113	\$56.36
MINI-GATOR SPRINKLER	10,295	2	\$5,600	\$0	\$0	\$0.00	\$0.00	\$747	\$63	\$0.08
CENTER PIVOT SPRINKLER	10,295	1	\$15,000	\$0	\$0	\$0.00	\$0.00	\$2,000	\$169	\$0.21
NATURAL GAS WELL	10,295	1	\$16,900	\$35,911	\$0	\$3.49	\$0.00	\$1,352	\$190	\$0.16
			\$242,470	\$54,569	\$7,216			\$36,775	\$3,241	

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2005.  
 Planting dates: August 15 - November 15  
 Harvesting dates: July 1 - July 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
WHEAT	\$3.75	80.00 BUSHELS		\$300.00
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
<b>TOTAL</b>				<b>\$337.50</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.24	100 LBS	\$24.00		\$24.00
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
<b>SUBTOTAL</b>			<b>\$45.60</b>	<b>\$5.00</b>	<b>\$50.68</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.52	\$1.52	\$1.27	\$1.93	\$5.25
CHISEL	185 HP	0.09 HR		\$0.67	\$1.96	\$0.70	\$1.93	\$5.26
DISC	185 HP	0.07 HR		\$0.52	\$1.52	\$1.27	\$1.93	\$5.25
DRILL	126 HP	0.12 HR		\$0.89	\$2.08	\$0.58	\$2.11	\$5.65
IRRIGATE (7X)		0.70 HR		\$4.62	\$24.81	\$0.00	\$3.21	\$32.63
<b>SUBTOTAL</b>		<b>1.05 HR</b>		<b>\$7.23</b>	<b>\$31.89</b>	<b>\$3.83</b>	<b>\$11.11</b>	<b>\$54.05</b>

<b>HARVEST OPERATIONS</b>								
COMBINE	GRAIN TABLE	0.14 HR		\$1.04	\$2.46	\$0.55	\$9.16	\$13.21
GRAIN CART	93 HP	0.14 HR		\$1.04	\$1.71	\$0.29	\$1.59	\$4.63
HAUL	SEMI	0.14 HR		\$1.04	\$1.54	\$0.39	\$4.30	\$7.28
<b>SUBTOTAL</b>		<b>0.42 HR</b>	<b>\$0.00</b>	<b>\$3.13</b>	<b>\$5.70</b>	<b>\$1.23</b>	<b>\$15.06</b>	<b>\$25.12</b>

<b>OVERHEAD EXPENSES</b>								
DOWNTIME		0.19 HR		\$1.43				\$1.43
EMPLOYEE BENEFITS				\$1.86				\$1.86
INSURANCE			\$0.21					\$0.21
LAND TAXES							\$0.30	\$0.30
SUPERVISION AND MANAGEMENT				\$24.71				\$24.71
OTHER EXPENSES			\$19.84					\$19.84
<b>SUBTOTAL</b>		<b>0.19 HR</b>	<b>\$20.04</b>	<b>\$28.01</b>			<b>\$0.30</b>	<b>\$48.36</b>

TOTAL OPERATING EXPENSES 1.66 HR \$65.64 \$38.36 \$37.59 \$5.06 \$31.47 \$178.21

NET OPERATING PROFIT \$159.29

INTEREST ON OPERATING CAPITAL ( \$32.35 @ 7.00% ) \$2.26  
 INTEREST ON EQUIPMENT INVESTMENT \$12.81

RETURN TO LAND AND RISK \$144.21

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

**BUDGET SUMMARY**

GROSS RETURN		\$337.50	
VARIABLE OPERATING EXPENSES	\$108.30		
RETURN OVER VARIABLE EXPENSES		\$229.20	(GROSS MARGIN)
FIXED EXPENSES	\$31.47		
NET FARM INCOME		\$197.73	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$38.36		
NET OPERATING PROFIT		\$159.37	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$15.07		
RETURN TO LAND AND RISK		\$144.29	

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 2005.  
Planting dates: April 15 - May 15  
Harvesting dates: October 1 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
CORN FOR GRAIN	\$2.25	200.00 BUSHELS		\$450.00
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
<b>TOTAL</b>				<b>\$470.00</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.06	26 000	\$27.63		\$27.63
NITROGEN (N)	\$0.40	220 LBS	\$88.00		\$88.00
PHOSPHATE (P2O5)	\$0.31	70 LBS	\$21.70		\$21.70
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.			
CROP INSURANCE	\$0.28				\$0.28
<b>SUBTOTAL</b>			<b>\$261.43</b>	<b>\$5.00</b>	<b>\$266.71</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.52	\$1.52	\$1.27	\$1.93	\$5.25
CHISEL	185 HP	0.09 HR		\$0.67	\$1.96	\$0.70	\$1.93	\$5.26
DISC & SPRAY	185 HP	0.10 HR		\$0.75	\$2.18	\$1.89	\$3.25	\$8.06
PLANTER	126 HP	0.12 HR		\$0.89	\$2.08	\$0.68	\$3.75	\$7.41
ROLLING CULT (2X)	126 HP	0.20 HR		\$1.49	\$3.46	\$1.60	\$3.76	\$10.32
SIDEDRESS	185 HP	0.17 HR		\$1.27	\$3.70	\$0.98	\$3.28	\$9.23
IRRIGATE (16X)		1.60 HR		\$10.56	\$76.68	\$0.00	\$9.91	\$97.15
<b>SUBTOTAL</b>		<b>2.35 HR</b>		<b>\$16.15</b>	<b>\$91.58</b>	<b>\$7.14</b>	<b>\$27.82</b>	<b>\$142.68</b>

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	CORN HEAD	0.20 HR		\$1.49	\$3.51	\$0.93	\$22.32	\$28.25
GRAIN CART	93 HP	0.20 HR		\$1.49	\$2.44	\$0.41	\$2.28	\$6.62
HAUL	SEMI	0.20 HR		\$1.49	\$2.21	\$0.56	\$6.15	\$10.40
<b>SUBTOTAL</b>		<b>0.60 HR</b>	<b>\$0.00</b>	<b>\$4.47</b>	<b>\$8.15</b>	<b>\$1.91</b>	<b>\$30.74</b>	<b>\$45.27</b>

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.30 HR		\$2.20				\$2.20
EMPLOYEE BENEFITS			\$3.71				\$3.71
INSURANCE		\$0.41					\$0.41
LAND TAXES						\$0.30	\$0.30
SUPERVISION AND MANAGEMENT			\$36.14				\$36.14
OTHER EXPENSES		\$19.84					\$19.84
<b>SUBTOTAL</b>	<b>0.30 HR</b>	<b>\$20.25</b>	<b>\$42.05</b>			<b>\$0.30</b>	<b>\$62.60</b>

TOTAL OPERATING EXPENSES 3.25 HR \$281.67 \$62.67 \$99.72 \$9.05 \$63.86 \$517.26

NET OPERATING PROFIT (\$47.26)

INTEREST ON OPERATING CAPITAL ( \$163.64 @ 7.00% ) \$11.45  
INTEREST ON EQUIPMENT INVESTMENT \$28.98

RETURN TO LAND AND RISK (\$87.69)

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

BUDGET SUMMARY

GROSS RETURN	\$470.00	
VARIABLE OPERATING EXPENSES	\$390.45	
RETURN OVER VARIABLE EXPENSES	\$79.55	(GROSS MARGIN)
FIXED EXPENSES	\$63.86	
NET FARM INCOME	\$15.69	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$62.67	
NET OPERATING PROFIT	(\$46.98)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$40.43	
RETURN TO LAND AND RISK	(\$87.41)	

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 2005.  
 Planting dates: May 15 - June 15  
 Harvesting dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
GRAIN SORGHUM	\$3.70	45.00 CWT		\$166.34
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
<b>TOTAL</b>				<b>\$171.34</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.23	5 LBS	\$6.15		\$6.15
NITROGEN (N)	\$0.40	150 LBS	\$60.00		\$60.00
PHOSPHATE (P205)	\$0.31	50 LBS	\$15.50		\$15.50
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
<b>SUBTOTAL</b>			<b>\$109.81</b>	<b>\$5.00</b>	<b>\$115.00</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.07 HR		\$0.52	\$1.52	\$1.27	\$1.93	\$5.25
CHISEL	185 HP	0.09 HR		\$0.67	\$1.96	\$0.70	\$1.93	\$5.26
DISC & SPRAY	185 HP	0.10 HR		\$0.75	\$2.18	\$1.89	\$3.25	\$8.06
PLANTER	126 HP	0.12 HR		\$0.89	\$2.08	\$0.68	\$3.75	\$7.41
ROLLING CULT.	126 HP	0.10 HR		\$0.75	\$1.73	\$0.80	\$1.88	\$5.16
SIDEDRESS	185 HP	0.17 HR		\$1.27	\$3.70	\$0.98	\$3.28	\$9.23
IRRIGATE (6X)		0.60 HR		\$3.96	\$27.06	\$0.00	\$3.50	\$34.52
<b>SUBTOTAL</b>		<b>1.25 HR</b>		<b>\$8.80</b>	<b>\$40.23</b>	<b>\$6.34</b>	<b>\$19.52</b>	<b>\$74.89</b>

HARVEST OPERATIONS	GRAIN TABLE	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	GRAIN TABLE	0.14 HR		\$1.04	\$2.46	\$0.55	\$9.16	\$13.21
GRAIN TABLE	93 HP	0.14 HR		\$1.04	\$1.71	\$0.29	\$1.59	\$4.63
HAUL	2 TON	0.14 HR		\$1.04	\$1.23	\$0.06	\$7.89	\$10.22
<b>SUBTOTAL</b>		<b>0.42 HR</b>	<b>\$0.00</b>	<b>\$3.13</b>	<b>\$5.40</b>	<b>\$0.90</b>	<b>\$18.64</b>	<b>\$28.06</b>

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.23 HR		\$1.68				\$1.68
EMPLOYEE BENEFITS			\$2.15				\$2.15
INSURANCE		\$0.24					\$0.24
LAND TAXES						\$0.30	\$0.30
SUPERVISION AND MANAGEMENT			\$13.25				\$13.25
OTHER EXPENSES		\$19.84					\$19.84
<b>SUBTOTAL</b>	<b>0.23 HR</b>	<b>\$20.08</b>	<b>\$17.08</b>			<b>\$0.30</b>	<b>\$37.46</b>

TOTAL OPERATING EXPENSES 1.90 HR \$129.89 \$29.01 \$45.62 \$7.24 \$43.47 \$255.41

NET OPERATING PROFIT (\$84.07)

INTEREST ON OPERATING CAPITAL ( \$67.16 @ 7.00% ) \$4.70  
 INTEREST ON EQUIPMENT INVESTMENT \$18.10

RETURN TO LAND AND RISK (\$106.87)

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

BUDGET SUMMARY

GROSS RETURN		\$171.34	
VARIABLE OPERATING EXPENSES	\$182.75		
RETURN OVER VARIABLE EXPENSES		(\$11.41)	(GROSS MARGIN)
FIXED EXPENSES	\$43.47		
NET FARM INCOME		(\$54.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$29.01		
NET OPERATING PROFIT		(\$83.88)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$22.80		
RETURN TO LAND AND RISK		(\$106.69)	

TABLE 9. Haygrazer/millet, dryland, budgeted per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2005.  
 Planting dates: June 1 - June 15  
 Harvesting dates: September 1 - September 15

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
HAY	\$105.00	1.50 TONS (STACKED)	\$157.50
TOTAL			\$157.50

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.31	6.00 LBS	\$1.86		\$1.86
HERBICIDE	\$14.79	1.00 ACRE	\$14.79		\$14.79
BALING TWINE	\$0.21	0.13 ROLL	\$0.03		\$0.03
SUBTOTAL			\$16.68		\$16.68

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.09 HR		\$0.67	\$1.96	\$0.70	\$1.93	\$5.26
DISC	185 HP	0.07 HR		\$0.52	\$1.52	\$1.27	\$1.93	\$5.25
DRILL	126 HP	0.12 HR		\$0.89	\$2.08	\$0.58	\$2.11	\$5.65
SUBTOTAL		0.28 HR		\$2.09	\$5.56	\$2.55	\$5.97	\$16.17

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWATHER		0.16 HR		\$1.19	\$1.26	\$0.09	\$8.49	\$11.03
BALER	126 HP	0.17 HR		\$1.27	\$2.94	\$0.56	\$4.85	\$9.62
SUBTOTAL		0.33 HR	\$0.00	\$2.46	\$4.20	\$0.65	\$13.34	\$20.65

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.15 HR		\$1.14				\$1.14
EMPLOYEE BENEFITS			\$0.82				\$0.82
INSURANCE		\$0.09					\$0.09
LAND TAXES						\$0.30	\$0.30
SUPERVISION AND MANAGEMENT			\$11.33				\$11.33
OTHER EXPENSES		\$3.97					\$3.97
SUBTOTAL	0.15 HR	\$4.06	\$13.28			\$0.30	\$17.65

TOTAL OPERATING EXPENSES	0.43 HR	\$20.74	\$17.83	\$9.76	\$3.20	\$19.61	\$71.14
--------------------------	---------	---------	---------	--------	--------	---------	---------

NET OPERATING PROFIT \$86.36

INTEREST ON OPERATING CAPITAL ( \$10.77 @ 7.00% ) \$0.75  
 INTEREST ON EQUIPMENT INVESTMENT \$11.68

RETURN TO LAND AND RISK \$73.92

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

BUDGET SUMMARY

GROSS RETURN		\$157.50	
VARIABLE OPERATING EXPENSES	\$33.70		
RETURN OVER VARIABLE EXPENSES		\$123.80	(GROSS MARGIN)
FIXED EXPENSES	\$19.61		
NET FARM INCOME		\$104.19	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$17.83		
NET OPERATING PROFIT		\$86.36	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$12.44		
RETURN TO LAND AND RISK		\$73.92	

TABLE 10. Summary of per acre costs and returns for a 1,280 acre farm with above average management, Union County, Projected 2005.

	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	\$3.75	\$2.25	\$3.70	\$105.00
GOVERNMENT PAYMENTS	\$0.00	\$0.00	\$0.00	\$0.00
SECOND INCOME	\$37.50	\$20.00	\$5.00	\$0.00
GROSS RETURN	\$337.50	\$470.00	\$171.34	\$157.50
CASH OPERATING EXPENSES				
SEED	\$24.00	\$27.63	\$6.15	\$1.86
FERTILIZER	\$21.60	\$144.20	\$75.50	
CHEMICALS		\$89.60	\$28.16	\$14.79
CROP INSURANCE	\$0.08	\$0.28	\$0.19	
OTHER PURCHASED INPUTS				\$0.03
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$12.79	\$23.05	\$18.56	\$9.76
FUEL-IRRIGATION	\$24.81	\$76.68	\$27.06	
REPAIRS	\$5.06	\$9.05	\$7.24	\$3.20
CUSTOM CHARGES				\$0.00
LAND TAXES	\$0.30	\$0.30	\$0.30	\$0.30
OTHER EXPENSES	\$20.04	\$20.25	\$20.08	\$4.06
TOTAL CASH EXPENSES	\$108.68	\$391.03	\$183.24	\$34.01
RETURN OVER CASH EXPENSES	\$228.82	\$78.97	(\$11.90)	\$123.49
FIXED EXPENSES	\$31.16	\$63.56	\$43.16	\$19.31
TOTAL EXPENSES	\$139.85	\$454.59	\$226.40	\$53.31
NET FARM INCOME	\$197.65	\$15.41	(\$55.06)	\$104.19
LABOR AND MANAGEMENT COSTS	\$38.36	\$62.67	\$29.01	\$17.83
NET OPERATING PROFIT	\$159.29	(\$47.26)	(\$84.07)	\$86.36
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL	\$2.26	\$11.45	\$4.70	\$0.75
INTEREST ON EQUIPMENT INVESTMENT	\$12.81	\$28.98	\$18.10	\$11.68
TOTAL CAPITAL COSTS	\$15.07	\$40.43	\$22.80	\$12.44
RETURN TO LAND AND RISK	\$144.21	(\$87.69)	(\$106.87)	\$73.92

TABLE 11. Whole farm summary, Union County,  
Projected 2005.

GROSS RETURNS		
WHEAT	604 ACRES	
CROP		\$181,125
GRAZING		\$22,641
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	179 ACRES	
CROP		\$80,325
GRAZING		\$3,570
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	268 ACRES	
CROP		\$44,537
GRAZING		\$1,339
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
HAYGRAZER/MILLET	190 ACRES	
CROP		\$29,925
GROSS RETURN		<u>\$363,462</u>
CASH OPERATING EXPENSES		
SEED		\$21,421
FERTILIZER		\$58,996
CHEMICALS		\$26,344
CROP INSURANCE		\$150
OTHER PURCHASED INPUTS		\$5
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$18,658
FUEL-IRRIGATION		\$35,911
REPAIRS		\$7,216
CUSTOM CHARGES		\$0
LAND TAXES		\$377
OTHER EXPENSES		\$21,863
TOTAL CASH EXPENSES		<u>\$190,940</u>
RETURN OVER CASH EXPENSES		\$172,521
FIXED EXPENSES		\$45,387
TOTAL EXPENSES		\$236,327
NET FARM INCOME		\$127,135
LABOR AND MANAGEMENT COSTS		\$45,503
NET OPERATING PROFIT		\$81,631
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$4,814
INTEREST ON EQUIPMENT INVESTMENT		\$19,973
TOTAL CAPITAL COSTS		<u>\$24,787</u>
RETURN TO LAND AND RISK		<u>\$56,845</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	\$37,645	9.25%
\$750 /ACRE	\$28,045	6.79%
\$1,000 /ACRE	\$18,445	5.36%
\$1,250 /ACRE	\$8,845	4.43%
\$1,500 /ACRE	(\$755)	3.77%

\* 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)