

TABLE 1. Acreage Summary, Curry County,  
Projected 2004.

BUDGET AREA..... CURRY COUNTY			
FARM SIZE..... 640 ACRES			
IRRIGATION TYPE..... SPRINKLER			
NUMBER OF CROPS... 2			
ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		AC. IN. PER ACRE	TOTAL AC. IN.
WHEAT	119	10	1,190
ARP	0		
FLEX IN WHEAT	21	10	210
CORN	306	20	6,120
ARP	0		
FLEX IN WHEAT	54	10	540
CORNERS, ROADS, HOMESTEAD	140		
TOTAL	640		8,060
ACRE FEET PER ACRE PER ACRE OF WATER RIGHTS			1.05

TABLE 2. Basic cost information for Curry County,  
Projected 2004.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.55
General & Irrigators	\$/hour	\$6.75
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.29
Phosphate (P205)	\$/pound	\$0.20
Seed:		
Corn	\$/bag	\$85.00
Wheat	\$/pound	\$0.18
Diesel fuel	\$/gallon	\$1.50
Gasoline	\$/gallon	\$1.45
Electricity (SWPS)	cents/KwHr	5.50
LP gas	\$/gallon	\$1.21
Natural gas (Gas NM)	\$/MCF	\$7.22
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	6.50%
Land Interest Rate	percent	6.00%
Equipment Interest Rate	percent	6.50%
Real Interest Rate	percent	4.00%
Land Taxes	\$109.00 /acre (full value)	\$0.91
Personal Property Tax Rate	- NR - R	\$/ \$1,000 (Assessed Value) \$25.05 \$25.05
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 Curry County,  
Projected 2004.

Item		
Electricity (Domestic & Shop)	\$220.00 per month	\$2,640
Telephone	\$115.00 per month	\$1,380
Accounting & Legal		\$1,600
Misc. Supplies & Hand Tools		\$2,400
Pickup and Auto		
miles	20,000 @ \$0.365 per mile	\$7,300
Insurance		
- general liability (non-employee)		\$2,150
- fire/theft		\$1,725
Property Taxes		
- non-planted land		\$605
- other than land & machinery		\$595
Building repairs and maintenance		\$1,425
Dues, fees, publications		\$380
Farmstead Equipment		\$165
	Total	\$22,365
	Total Per Planned Acre	\$44.73

TABLE 4. Pumping costs and data for Curry County,  
Projected 2004.

INPUT DATA			
DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER	40	STATIC.....	300
		DRAW DOWN.....	35
		TOTAL HEAD.....	335
		CASING.....	350
GALLONS PER MINUTE (GPM)	550		
WORK HORSEPOWER	59		
EFFICIENCY FACTOR:			
ELECTRICITY	0.592		
NATURAL GAS	0.156		
LP GAS	0.156		
DIESEL	0.160		
FUEL COST PER UNIT:			
ELECTRICITY	5.50	CENTS/KwHr	
NATURAL GAS	\$7.22	\$/MCF	
LP GAS	\$1.21	\$/GAL	
DIESEL	\$1.50	\$/GAL	
FUEL PUMPING COS			
ELECTRIC WELL:			
COST PER HOUR		\$4.15	
COST PER ACRE INCH		\$3.41	
NATURAL GAS WELL:			
COST PER HOUR		\$7.70	
COST PER ACRE INCH		\$6.33	
LP GAS WELL:			
COST PER HOUR		\$12.79	
COST PER ACRE INCH		\$10.52	
DIESEL WELL:			
COST PER HOUR		\$10.03	
COST PER ACRE INCH		\$8.25	

TABLE 5. Equipment summary for a 640 acre sprinkler-irrigated wheat/corn farm with above average management, Curry County,  
Projected 2004.

EQUIPMENT		ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS			FIXED COSTS			
ITEM & SIZE	FUEL, OIL, LUBRICANT				REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR	140 HP	142	1	\$13,188	\$1,673	\$819	\$11.78	\$5.76	\$3,493	\$219	\$26.14
TRACTOR	185 HP	240	1	\$38,035	\$3,738	\$971	\$15.58	\$4.05	\$5,995	\$375	\$26.54
DISC	18 FT OFFSE	165	1	\$7,500	\$0	\$0	\$0.00	\$0.00	\$1,000	\$63	\$6.44
DRILL	20 FT	25	1	\$3,600	\$0	\$129	\$0.00	\$5.11	\$720	\$30	\$29.74
FERT SPREADER	DEALER FURNISHE	25			\$0	\$0				\$0	
CHISEL	9 PT	75	1	\$1,350	\$0	\$62	\$0.00	\$0.82	\$180	\$11	\$2.55
CULTIVATOR	6 ROW	40	1	\$2,500	\$0	\$68	\$0.00	\$1.70	\$333	\$21	\$8.90
PLANTER	6 ROW	52	1	\$4,250	\$0	\$433	\$0.00	\$8.33	\$850	\$35	\$17.02
INJECTOR PUMP		6,632	4	\$2,400	\$0	\$0	\$0.00	\$0.00	\$480	\$10	\$0.07
TOWABLE SPRINKLER		6,632	4	\$60,000	\$274	\$6,002	\$0.04	\$0.91	\$8,000	\$501	\$1.28
ELECTRIC WELL		6,632	4	\$52,000	\$27,496	\$600	\$4.15	\$0.09	\$4,727	\$434	\$0.78
TOTAL				\$184,823	\$33,181	\$9,084			\$25,779	\$1,700	

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County,  
 Projected 2004.  
 Planting Dates: August 15 - September 15  
 Harvesting Dates: June 15 - July 15

ITEM	PRICE	YIELD	BASE					TOTAL	
<b>GROSS RETURNS</b>									
WHEAT	\$3.75	40.00 BUSHELS						\$150.00	
DIRECT PAYMENT	\$0.52	40.00 BUSHELS	0.85					\$17.68	
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00	
GRAZING	\$40.00	1.00 ACRE						\$40.00	
<b>TOTAL</b>								<b>\$207.68</b>	
<b>PURCHASED INPUTS</b>									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					FIXED COST	TOTAL
SEED	\$0.18	80 LBS	\$14.40						\$14.40
LIQUID FERT (28-0-0)	\$0.07	460 LBS	\$33.35						\$33.35
NITROGEN (N)	\$0.29	18 LBS	\$5.22						\$5.22
PHOSPHATE (P205)	\$0.20	46 LBS	\$9.20						\$9.20
INSECTICIDE (CUSTOM)	\$11.16	1 ACRE	\$11.16						\$11.16
HERBICIDE (CUSTOM)	\$11.16	1 ACRE	\$11.16						\$11.16
PUMP WATER*		10 AC. IN.							
CROP INSURANCE	\$0.26		\$0.26						\$0.26
<b>SUBTOTAL</b>			<b>\$84.75</b>						<b>\$84.75</b>
<b>PREHARVEST OPERATIONS</b>									
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL	
CHISEL	185 HP	0.15 HR		\$1.13	\$2.34	\$0.73	\$4.36	\$8.56	
DISC (3X)	185 HP	0.33 HR		\$2.49	\$5.14	\$1.34	\$10.88	\$19.85	
FERT SPREADER-ANHY	140 HP	0.05 HR		\$0.38	\$0.59	\$0.29	\$1.31	\$2.56	
DRILL	140 HP	0.13 HR		\$0.98	\$1.53	\$1.41	\$7.26	\$11.19	
IRRIGATE (7X)		0.70 HR		\$4.73	\$34.45	\$8.19	\$17.56	\$64.93	
<b>SUBTOTAL</b>		1.36 HR		<b>\$9.71</b>	<b>\$44.05</b>	<b>\$11.96</b>	<b>\$41.38</b>	<b>\$107.10</b>	
<b>HARVEST OPERATIONS</b>									
COMBINE (CUSTOM)			\$2.11					\$2.11	
HAUL (CUSTOM)			\$6.40					\$6.40	
<b>SUBTOTAL</b>			<b>\$8.51</b>					<b>\$8.51</b>	
<b>OVERHEAD EXPENSES</b>									
DOWNTIME		0.17 HR		\$1.25				\$1.25	
EMPLOYEE BENEFITS				\$1.75				\$1.75	
INSURANCE			\$0.19					\$0.19	
LAND TAXES							\$0.91	\$0.91	
SUPERVISION AND MANAGEMENT				\$15.49				\$15.49	
OTHER EXPENSES			\$44.73					\$44.73	
<b>SUBTOTAL</b>		0.17 HR	<b>\$44.92</b>	<b>\$18.49</b>			<b>\$0.91</b>	<b>\$64.32</b>	
<b>TOTAL OPERATING EXPENSES</b>		1.53 HR	<b>\$138.19</b>	<b>\$28.19</b>	<b>\$44.05</b>	<b>\$11.96</b>	<b>\$42.29</b>	<b>\$264.68</b>	
<b>NET OPERATING PROFIT</b>								<b>(\$57.00)</b>	
INTEREST ON OPERATING CAPITAL		( \$57.09 @	6.50%	)				\$3.71	
INTEREST ON EQUIPMENT INVESTMENT								\$12.64	
<b>RETURN TO LAND AND RISK</b>								<b>(\$73.35)</b>	

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

**BUDGET SUMMARY**

GROSS RETURN		\$207.68	
VARIABLE OPERATING EXPENSES	\$194.20		
RETURN OVER VARIABLE EXPENSES	\$13.48	(GROSS MARGIN)	
FIXED EXPENSES	\$42.29		
NET FARM INCOME		(\$28.81)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$28.19		
NET OPERATING PROFIT		(\$57.00)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$16.35		
<b>RETURN TO LAND AND RISK</b>		<b>(\$73.35)</b>	

TABLE 7. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County  
 Projected 2004.  
 Planting Dates: April 15 - May 15  
 Harvesting Dates: September 1 - October 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
CORN FOR GRAIN	\$4.38	104.00 CWT		\$455.52
DIRECT PAYMENT	\$0.28	104.00 CWT	0.85	\$24.75
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$10.00	1.00 ACRE		\$10.00
<b>TOTAL</b>				<b>\$490.27</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.06	34 000	\$36.13		\$36.13
LIQUID FERT (28-0-0)	\$0.08	525 LBS	\$42.00		\$42.00
LIQUID FERT (46-0-0)	\$0.08	325 LBS	\$26.00		\$26.00
K-MAG	\$0.09	45 LBS	\$4.05		\$4.05
PHOSPHATE (P205)	\$0.20	100 LBS	\$20.00		\$20.00
NITROGEN (N)	\$0.29	50 LBS	\$14.50		\$14.50
HERBICIDE (SYSTEM)	\$16.99	1 X/ACRE	\$16.99		\$16.99
INSECTICIDE (SYSTEM)	\$11.16	2 X/ACRE	\$22.32		\$22.32
TRACE ELEMENTS	\$16.00	1 ACRE	\$16.00		\$16.00
PUMP WATER*		20 AC. IN.			
CROP INSURANCE	\$0.16		\$0.16		\$0.16
<b>SUBTOTAL</b>			<b>\$198.15</b>		<b>\$198.15</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.11 HR		\$0.83	\$1.71	\$0.45	\$3.63	\$6.62
CHISEL	185 HP	0.15 HR		\$1.13	\$2.34	\$0.73	\$4.36	\$8.56
DISC (2X)	185 HP	0.22 HR		\$1.66	\$3.43	\$0.89	\$7.26	\$13.23
FERT SPREADER	140 HP	0.05 HR		\$0.38	\$0.59	\$0.29	\$1.31	\$2.56
PLANTER	140 HP	0.17 HR		\$1.28	\$2.00	\$2.40	\$7.34	\$13.02
CULTIVATOR	140 HP	0.13 HR		\$0.98	\$1.53	\$0.97	\$4.56	\$8.04
IRRIGATE (14X)		1.40 HR		\$9.45	\$68.91	\$16.38	\$33.90	\$128.64
<b>SUBTOTAL</b>		<b>2.23 HR</b>		<b>\$15.72</b>	<b>\$80.51</b>	<b>\$22.10</b>	<b>\$62.35</b>	<b>\$180.68</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$19.81					\$19.81
HAUL (CUSTOM)			\$18.72					\$18.72
<b>SUBTOTAL</b>			<b>\$38.53</b>					<b>\$38.53</b>

OVERHEAD EXPENSES								
DOWNTIME		0.21 HR		\$1.57				\$1.57
EMPLOYEE BENEFITS				\$2.83				\$2.83
INSURANCE			\$0.31					\$0.31
LAND TAXES						\$0.91		\$0.91
SUPERVISION AND MANAGEMENT				\$36.13				\$36.13
OTHER EXPENSES			\$44.73					\$44.73
<b>SUBTOTAL</b>		<b>0.21 HR</b>		<b>\$45.04</b>	<b>\$40.53</b>		<b>\$0.91</b>	<b>\$86.48</b>

TOTAL OPERATING EXPENSES 2.44 HR \$281.72 \$56.25 \$80.51 \$22.10 \$63.26 \$503.84

NET OPERATING PROFIT (\$13.57)

INTEREST ON OPERATING CAPITAL ( \$127.94 @ 6.50% ) \$8.32  
 INTEREST ON EQUIPMENT INVESTMENT \$17.19

RETURN TO LAND AND RISK (\$39.07)

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

BUDGET SUMMARY

GROSS RETURN		\$490.27	
VARIABLE OPERATING EXPENSES	\$384.33		
RETURN OVER VARIABLE EXPENSES		\$105.94	(GROSS MARGIN)
FIXED EXPENSES	\$63.26		
NET FARM INCOME		\$42.68	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$56.25		
NET OPERATING PROFIT		(\$13.57)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$25.51		
RETURN TO LAND AND RISK		(\$39.07)	

TABLE 8. Summary of per acre costs and returns for a 640 acre farm with above average management Curry County, Projected 2004.

	WHEAT	CORN FOR GRAIN
	BUSHEL	CWT
PRIMARY YIELD	40.00	104.00
PRIMARY PRICE	\$3.75	\$4.38
GOVERNMENT PAYMENTS	\$0.52	\$24.75
SECOND INCOME	\$40.00 ACRE	\$10.00 ACRE
GROSS RETURN	\$207.68	\$490.27
CASH OPERATING EXPENSES		
SEED	\$14.40	\$36.13
FERTILIZER	\$47.77	\$122.55
CHEMICALS	\$22.32	\$39.31
CROP INSURANCE	\$0.26	\$0.16
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$9.60	\$11.60
FUEL-IRRIGATION	\$34.45	\$68.91
REPAIRS	\$11.96	\$22.10
CUSTOM CHARGES	\$8.51	\$38.53
LAND TAXES	\$0.91	\$0.91
OTHER EXPENSES	\$44.92	\$45.04
TOTAL CASH EXPENSES	\$195.11	\$385.24
RETURN OVER CASH EXPENSES	\$12.57	\$105.03
FIXED EXPENSES	\$41.38	\$62.35
TOTAL EXPENSES	\$236.49	\$447.59
NET FARM INCOME	(\$28.81)	\$42.68
LABOR AND MANAGEMENT COSTS	\$28.19	\$56.25
NET OPERATING PROFIT	(\$57.00)	(\$13.57)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$3.71	\$8.32
INTEREST ON EQUIPMENT INVESTMENT	\$12.64	\$17.19
TOTAL CAPITAL COSTS	\$16.35	\$25.51
RETURN TO LAND AND RISK	(\$73.35)	(\$39.07)

TABLE 9. Whole farm summary, Curry County,  
Projected 2004.

GROSS RETURNS		
WHEAT	194 ACRES	
CROP		\$29,100
GRAZING		\$7,760
DIRECT PAYMENT		\$2,104
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	306 ACRES	
CROP		\$139,389
GRAZING		\$3,060
DIRECT PAYMENT		\$7,574
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		<u>\$188,987</u>
CASH OPERATING EXPENSES		
SEED		\$13,848
FERTILIZER		\$46,768
CHEMICALS		\$16,359
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$5,411
FUEL-IRRIGATION		\$27,770
REPAIRS		\$9,084
CUSTOM CHARGES		\$13,442
LAND TAXES		\$455
OTHER EXPENSES		\$22,499
TOTAL CASH EXPENSES		<u>\$155,735</u>
RETURN OVER CASH EXPENSES		\$33,252
FIXED EXPENSES		\$27,106
TOTAL EXPENSES		\$182,842
NET FARM INCOME		\$6,146
LABOR AND MANAGEMENT COSTS		\$22,681
NET OPERATING PROFIT		(\$16,535)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$3,265
INTEREST ON EQUIPMENT INVESTMENT		\$7,713
TOTAL CAPITAL COSTS		<u>\$10,977</u>
RETURN TO LAND AND RISK		<u>(\$27,513)</u>
LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$40,313)	-3.28%
\$1,000 /ACRE	(\$53,113)	-2.00%
\$1,500 /ACRE	(\$65,913)	-1.44%
\$2,000 /ACRE	(\$78,713)	-1.13%
\$2,500 /ACRE	(\$91,513)	-0.93%

\* 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)