

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

BUDGET AREA.....	CURRY COUNTY		
FARM SIZE.....	640 ACRES		
IRRIGATION TYPE.....	SPRINKLER		
NUMBER OF CROPS...	2		
	WATER USE		
	AC. IN.	TOTAL	
ACREAGE SUMMARY:	PER ACRE	AC. IN.	
WHEAT	255	10	2,550
ARP	0		
FLEX IN WHEAT	45	10	450
GRAIN SORGHUM	170	16	2,720
ARP	0		
FLEX IN WHEAT	30	10	300
CORNERS, ROADS, HOMESTEAD	140		
TOTAL	640		6,020
ACRE FEET PER ACRE OF WATER RIGHTS			0.78

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:		
Grain Sorghum	\$/pound	\$1.30
Wheat	\$/pound	\$0.18
Diesel fuel	\$/gallon	\$1.50
Gasoline	\$/gallon	\$1.45
Electricity (SWPS)	cents/KwH	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)		\$225.00 per month
Telephone		\$125.00 per month
Accounting & Legal		\$1,650
Misc. Supplies & Hand Tools		\$2,470
Pickup and Auto		
miles	20,000 @	\$0.367 per mile
Insurance		
- general liability (non-employee)		\$2,220
- fire/theft		\$1,775
Property Taxes		
- non-planted land		\$605
- other than land & machinery		\$635
Building repairs and maintenance		\$1,465
Dues, fees, publications		\$400
Farmstead Equipment		\$170
	Total	\$22,920
	Total Per Planted Acre	\$45.84

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 CC			
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/grain sorghum farm with above average management, Curry County,  
Projected 2004.

EQUIPMENT			VARIABLE COSTS						FIXED COSTS		
ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	FUEL, OIL, LUBRICANT	REPAIR	FUEL, OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HR	
TRACTOR 140 HP	119	1	\$13,188	\$1,401	\$467	\$11.78	\$3.93	\$3,493	\$219	\$31.22	
TRACTOR 185 HP	254	1	\$38,035	\$3,948	\$3,421	\$15.57	\$13.49	\$5,995	\$375	\$25.12	
DISC 18 FT OFFSE	165	1	\$7,500	\$0	\$0		\$0.00	\$1,000	\$63	\$6.44	
DRILL 20 FT	43	1	\$3,600	\$0	\$266		\$6.19	\$720	\$30	\$17.48	
FERT SPREADER DEALER FURNISHE	25			\$0	\$0						
CHISEL 9 PT	75	1	\$1,350	\$0	\$62		\$0.82	\$180	\$11	\$2.55	
CULTIVATOR 6 ROW	22	1	\$2,500	\$0	\$43		\$1.95	\$333	\$21	\$16.03	
PLANTER 6 ROW	29	1	\$4,250	\$0	\$174		\$6.04	\$850	\$35	\$30.64	
ROD WEEDER	14	1	\$625	\$0	\$7		\$0.54	\$83	\$5	\$6.51	
INJECTOR PUMP	4,954	3	\$1,800	\$0	\$0		\$0.00	\$360	\$8	\$0.07	
SPRINKLER	4,954	3	\$45,000	\$204	\$4,483	\$0.04	\$0.91	\$6,000	\$376	\$1.29	
ELECTRIC WELL	4,954	3	\$39,000	\$20,537	\$448	\$4.15	\$0.09	\$3,545	\$326	\$0.78	
TOTAL			\$156,848	\$26,090	\$9,371			\$22,560	\$1,469		

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>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.18	80 LBS	\$14.40		\$14.40
LIQUID FERT (28-0-0)	\$0.09	460 LBS	\$41.40		\$41.40
NITROGEN (N)	\$0.29	18 LBS	\$5.22		\$5.22
PHOSPHATE (P205)	\$0.20	46 LBS	\$9.20		\$9.20
INSECTICIDE (CUSTOM)	\$10.00	1 ACRE	\$10.00		\$10.00
HERBICIDE (CUSTOM)	\$11.17	1 ACRE	\$11.17		\$11.17
PUMP WATER*		10 AC. IN.			
CROP INSURANCE	\$0.15		\$0.15		\$0.15
<b>SUBTOTAL</b>			<b>\$91.54</b>		<b>\$91.54</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.15 HR		\$1.13	\$2.34	\$2.15	\$4.15	\$9.76
DISC (3X)	185 HP	0.33 HR		\$2.49	\$5.14	\$4.45	\$10.41	\$22.49
FERT SISPREADER	140 HP	0.05 HR		\$0.38	\$0.59	\$0.20	\$1.56	\$2.72
DRILL	140 HP	0.13 HR		\$0.98	\$1.53	\$1.32	\$6.33	\$10.16
IRRIGATE (7X)		0.70 HR		\$4.73	\$34.45	\$8.19	\$17.63	\$65.00
<b>SUBTOTAL</b>		<b>1.36 HR</b>		<b>\$9.71</b>	<b>\$44.05</b>	<b>\$16.30</b>	<b>\$40.09</b>	<b>\$110.15</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$17.90					\$17.90
HAUL (C (CUSTOM)			\$6.40					\$6.40
<b>SUBTOTAL</b>			<b>\$24.30</b>					<b>\$24.30</b>

OVERHEAD EXPENSES								
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			\$45.84					\$45.84
<b>SUBTOTAL</b>		<b>0.17 HR</b>	<b>\$46.03</b>	<b>\$18.49</b>		<b>\$0.91</b>		<b>\$65.43</b>

TOTAL OPERATING EXPENSES 1.53 HR \$161.88 \$28.19 \$44.05 \$16.30 \$41.00 \$291.42

NET OPERATING PROFIT (\$83.74)

INTEREST ON OPERATING CAPITAL ( \$62.88 @ 6.50% ) \$4.09  
INTEREST ON EQUIPMENT INVESTMENT \$13.02

RETURN TO LAND AND RISK (\$100.85)

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

GROSS RETURN		\$207.68		
VARIABLE OPERATING EXPENSES	\$222.23			
RETURN OVER VARIABLE EXPENSES		(\$14.55)	(GROSS MARGIN)	
FIXED EXPENSES	\$41.00			
NET FARM INCOME		(\$55.54)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$28.19			
NET OPERATING PROFIT		(\$83.74)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$17.11			
RETURN TO LAND AND RISK		(\$100.85)		

TABLE 7. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County  
 Projected 2004.  
 Planting Dates: May 15 - June 15  
 Harvesting Dates: October 15 - November 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
GRAIN SORGHUM	\$4.03	48.00 CWT		\$193.44
DIRECT PAYMENT	\$0.35	48.00 CWT	0.85	\$14.28
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$9.00	1.00 ACRE		\$9.00
<b>TOTAL</b>				<b>\$216.72</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.30	5 LBS	\$6.50		\$6.50
LIQUID FERT (28-0-0)	\$0.09	500 LBS	\$45.00		\$45.00
NITROGEN (N)	\$0.29	25 LBS	\$7.25		\$7.25
PHOSPHATE (P205)	\$0.20	50 LBS	\$10.00		\$10.00
HERBICIDE (CUSTOM)	\$11.57	1 X/ACRE	\$11.57		\$11.57
INSECTICIDE (CUSTOM)	\$5.68	1 X/ACRE	\$5.68		\$5.68
TRACE ELEMENTS	\$16.00	1 ACRE	\$16.00		\$16.00
PUMP WATER*		16 AC. IN.			
CROP INSURANCE	\$0.29		\$0.29		\$0.29
<b>SUBTOTAL</b>			<b>\$102.30</b>		<b>\$102.30</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	\$1.48	\$3.47	\$7.50
CHISEL	185 HP	0.15 HR		\$1.13	\$2.34	\$2.15	\$4.15	\$9.76
DISC (2X)	185 HP	0.22 HR		\$1.66	\$3.42	\$2.97	\$6.94	\$15.00
FERT SPREADER	140 HP	0.05 HR		\$0.38	\$0.59	\$0.20	\$1.56	\$2.72
ROD WEEDER	185 HP	0.08 HR		\$0.60	\$1.25	\$1.12	\$2.53	\$5.50
PLANT ER	140 HP	0.17 HR		\$1.28	\$2.00	\$1.69	\$10.52	\$15.50
CULTIVATOR	140 HP	0.13 HR		\$0.98	\$1.53	\$0.76	\$6.14	\$9.42
IRRIGATE (10X)		1.00 HR		\$6.75	\$55.13	\$13.11	\$28.21	\$103.19
<b>SUBTOTAL</b>		<b>1.91 HR</b>		<b>\$13.62</b>	<b>\$67.97</b>	<b>\$23.48</b>	<b>\$63.53</b>	<b>\$168.59</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)				\$23.67				\$23.67
HAUL (CUSTOM)				\$9.12				\$9.12
<b>SUBTOTAL</b>				<b>\$32.79</b>				<b>\$32.79</b>

OVERHEAD EXPENSES								
DOWNTIME		0.22 HR		\$1.62				\$1.62
EMPLOYEE BENEFITS				\$2.45				\$2.45
INSURANCE			\$0.27					\$0.27
LAND TAXES						\$0.91		\$0.91
SUPERVISION AND MANAGEMENT				\$16.63				\$16.63
OTHER EXPENSES			\$45.84					\$45.84
<b>SUBTOTAL</b>		<b>0.22 HR</b>		<b>\$46.11</b>	<b>\$20.70</b>		<b>\$0.91</b>	<b>\$67.72</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>2.13 HR</b>		<b>\$181.20</b>	<b>\$34.32</b>	<b>\$67.97</b>	<b>\$23.48</b>	<b>\$64.44</b>	<b>\$371.41</b>
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<b>NET OPERATING PROFIT</b>									<b>(\$154.69)</b>
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INTEREST ON OPERATING CAPITAL	(	\$76.74	@	6.50%	)				\$4.99
INTEREST ON EQUIPMENT INVESTMENT									\$20.33

<b>RETURN TO LAND AND RISK</b>									<b>(\$180.00)</b>
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\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$216.72		
VARIABLE OPERATING EXPENSES	\$272.65			
RETURN OVER VARIABLE EXPENSES		(\$55.93)	(GROSS MARGIN)	
FIXED EXPENSES	\$64.44			
NET FARM INCOME		(\$120.37)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$34.32			
NET OPERATING PROFIT		(\$154.69)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$25.31			
<b>RETURN TO LAND AND RISK</b>		<b>(\$180.00)</b>		

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

	WHEAT	GRAIN SORGHUM
	BUSHEL	CWT
PRIMARY YIELD	40.00	48.00
PRIMARY PRICE	\$3.75	\$4.03
GOVERNMENT PAYMENTS	\$17.68	\$14.28
SECOND INCOME	\$40.00 ACRE	\$9.00 ACRE
GROSS RETURN	\$207.68	\$216.72
CASH OPERATING EXPENSES		
SEED	\$14.40	\$6.50
FERTILIZER	\$55.82	\$78.25
CHEMICALS	\$21.17	\$17.25
CROP INSURANCE	\$0.15	\$0.29
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$9.59	\$12.84
FUEL-IRRIGATION	\$34.45	\$55.13
REPAIRS	\$16.30	\$23.48
CUSTOM CHARGES	\$24.30	\$32.79
LAND TAXES	\$0.91	\$0.91
OTHER EXPENSES	\$46.03	\$46.11
TOTAL CASH EXPENSES	\$223.14	\$273.56
RETURN OVER CASH EXPENSES	(\$15.46)	(\$56.84)
FIXED EXPENSES	\$40.09	\$63.53
TOTAL EXPENSES	\$263.22	\$337.09
NET FARM INCOME	(\$55.54)	(\$120.37)
LABOR AND MANAGEMENT COSTS	\$28.19	\$34.32
NET OPERATING PROFIT	(\$83.74)	(\$154.69)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$4.09	\$4.99
INTEREST ON EQUIPMENT INVESTMENT	\$13.02	\$20.33
TOTAL CAPITAL COSTS	\$17.11	\$25.31
RETURN TO LAND AND RISK	(\$100.85)	(\$180.00)

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

GROSS RETURNS		
WHEAT	255 ACRES	
CROP		\$38,250
GRAZING		\$10,200
DIRECT PAYMENT		\$3,182
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	170 ACRES	
CROP		\$32,885
GRAZING		\$1,530
DIRECT PAYMENT		\$2,428
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		<u>\$88,475</u>
CASH OPERATING EXPENSES		
SEED		\$5,857
FERTILIZER		\$31,723
CHEMICALS		\$9,920
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$5,349
FUEL-IRRIGATION		\$20,741
REPAIRS		\$9,371
CUSTOM CHARGES		\$13,594
LAND TAXES		\$455
OTHER EXPENSES		\$23,030
TOTAL CASH EXPENSES		<u>\$120,140</u>
RETURN OVER CASH EXPENSES		(\$31,666)
FIXED EXPENSES		\$24,029
TOTAL EXPENSES		\$144,169
NET FARM INCOME		(\$55,694)
LABOR AND MANAGEMENT COSTS		\$15,138
NET OPERATING PROFIT		(\$70,833)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,197
INTEREST ON EQUIPMENT INVESTMENT		\$7,754
TOTAL CAPITAL COSTS		<u>\$9,950</u>
RETURN TO LAND AND RISK		<u>(\$80,783)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$93,583)	-14.85%
\$1,000 /ACRE	(\$106,383)	-8.89%
\$1,500 /ACRE	(\$119,183)	-6.34%
\$2,000 /ACRE	(\$131,983)	-4.93%
\$2,500 /ACRE	(\$144,783)	-4.03%

\* 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)