

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

BUDGET AREA.....	CURRY COUNTY
FARM SIZE.....	640 ACRES
IRRIGATION TYPE.....	SPRINKLER
NUMBER OF CROPS.....	2

ACREAGE SUMMARY:	WATER USE	
	AC. IN. PER ACRE	TOTAL AC. IN.
WHEAT	255	10
ARP	0	
FLEX IN WHEAT	45	10
GRAIN SORGHUM	170	16
ARP	0	
FLEX IN WHEAT	30	10
CORNERS, ROADS, HOMESTEAD	140	
<b>TOTAL</b>	<b>640</b>	<b>6,020</b>
<b>ACRE FEET PER ACRE OF WATER RIGHTS</b>		<b>0.78</b>

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

Item		
<b>Labor Wage Rate:</b>		
Equipment operators	\$/hour	\$7.45
General Irrigators	\$/hour	\$6.65
<b>Purchased Inputs:</b>		
<b>Fertilizer:</b>		
Nitrogen (N)	\$/pound	\$0.40
Phosphate (P205)	\$/pound	\$0.31
<b>Seed:</b>		
Grain Sorghum	\$/pound	\$1.23
Wheat	\$/pound	\$0.24
Diesel fuel	\$/gallon	\$2.10
Gasoline	\$/gallon	\$2.00
Electricity (SWPS)	cents/KwH	6.85
LP gas	\$/gallon	\$1.70
Natural gas (Gas NM)	\$/MCF	\$3.27
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	\$109.00 /acre (full value)	\$109.00
Personal Property Tax Rate	- NR \$/\$1,000 (Assessed Value)	\$25.05
	- R	\$25.05
<b>Supervision Factors</b>		
Field Crop-Irrigation	\$/labor hour	\$1.00
Field Crop-Equipment & General	\$/labor hour	\$0.50
<b>Management Rate</b>	percent	<b>7.00%</b>

TABLE 3. Overhead cost information for Curry County, Projected 2005.

Item		
Electricity (Domestic & Shop)	\$0.00 per month	\$0
Telephone	\$0.00 per month	\$0
Accounting & Legal		\$0
Misc. Supplies & Hand Tools		\$0
Pickup and Auto		
miles	0 @ \$0.000 per mile	\$0
<b>Insurance</b>		
- general liability (non-employee)		\$0
- fire/theft		\$0
<b>Property Taxes</b>		
- non-planted land		\$0
- other than land & machinery		\$0
Building repairs and maintenance		\$0
Dues, fees, publications		\$0
Farmstead Equipment		\$0
<b>Total</b>		<b>\$0</b>
<b>Total Per Planted Acre</b>		<b>\$0.00</b>

TABLE 4. Pumping costs and data for Curry County,  
Projected 2005.

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	6.85	CENTS/Kwhr	
NATURAL GAS	\$3.27	\$/MCF	
LP GAS	\$1.70	\$/GAL	
DIESEL	\$2.10	\$/GAL	
FUEL PUMPING CC			
ELECTRIC WELL:			
COST PER HOUR		\$5.16	
COST PER ACRE INCH		\$4.24	
NATURAL GAS WELL:			
COST PER HOUR		\$3.50	
COST PER ACRE INCH		\$2.88	
LP GAS WELL:			
COST PER HOUR		\$17.95	
COST PER ACRE INCH		\$14.77	
DIESEL WELL:			
COST PER HOUR		\$14.03	
COST PER ACRE INCH		\$11.55	

TABLE 5. Equipment summary for a 640 acre sprinkler-irrigated wheat/grain sorghum farm with above average management, Curry County,  
Projected 2005.

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	\$19,725	\$1,951	\$517	\$16.41	\$4.35	\$4,834	\$303	\$43.21
TRACTOR	185 HP	254	1	\$44,016	\$5,517	\$1,467	\$21.75	\$5.79	\$6,428	\$403	\$26.93
DISC	18 FT OFFSE	165	1	\$7,500		\$1,535		\$9.30	\$1,000	\$63	\$6.44
DRILL	20 FT	43	1	\$3,600		\$74		\$1.73	\$720	\$30	\$17.48
FERT SPREADER DEALER FURNISHE		25									
CHISEL	9 PT	75	1	\$1,650		\$153		\$2.05	\$220	\$14	\$3.12
CULTIVATOR	6 ROW	22	1	\$3,000		\$82		\$3.72	\$400	\$25	\$19.23
PLANTER	6 ROW	29	1	\$4,250		\$59		\$2.04	\$850	\$35	\$30.64
ROD WEEDER		14	1	\$625		\$11		\$0.78	\$83	\$5	\$6.51
INJECTOR PUMP		4,954	1	\$600					\$120	\$3	\$0.02
SPRINKLER		4,954	1	\$15,000					\$2,000	\$125	\$0.43
ELECTRIC WELL		4,954	1	\$13,000	\$25,541		\$5.16		\$1,040	\$109	\$0.23
TOTAL				\$112,965	\$33,009	\$3,898			\$17,696	\$1,114	

TABLE 6. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, Projected 2005.  
Planting Dates: August 15 - September 15  
Harvesting Dates: June 15 - July 15

ITEM	PRICE	YIELD	BASE	TOTAL
<b>GROSS RETURNS</b>				
WHEAT	\$3.75	75.00 BUSHELS		\$281.25
DIRECT PAYMENT	\$0.00	75.00 BUSHELS	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$40.00	1.00 ACRE		\$40.00
<b>TOTAL</b>				<b>\$321.25</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.24	80 LBS	\$19.20		\$19.20
LIQUID FERT (28-0-0)	\$0.09	460 LBS	\$41.40		\$41.40
NITROGEN (N)	\$0.40	18 LBS	\$7.20		\$7.20
PHOSPHATE (P205)	\$0.31	46 LBS	\$14.26		\$14.26
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>\$103.38</b>		<b>\$103.38</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.15 HR		\$1.12	\$3.26	\$1.17	\$4.51	\$10.06
DISC (3X)	185 HP	0.33 HR		\$2.46	\$7.18	\$4.98	\$11.01	\$25.63
FERT SISREADER	140 HP	0.05 HR		\$0.37	\$0.82	\$0.22	\$2.16	\$3.57
DRILL	140 HP	0.13 HR		\$0.97	\$2.13	\$0.79	\$7.89	\$11.78
IRRIGATE (7X)		0.70 HR		\$4.66	\$42.43	\$0.00	\$5.64	\$52.72
<b>SUBTOTAL</b>		<b>1.36 HR</b>		<b>\$9.57</b>	<b>\$55.82</b>	<b>\$7.16</b>	<b>\$31.21</b>	<b>\$103.77</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$24.55					\$24.55
HAUL (C (CUSTOM)			\$12.00					\$12.00
<b>SUBTOTAL</b>			<b>\$36.55</b>					<b>\$36.55</b>

OVERHEAD EXPENSES								
DOWNTIME		0.17 HR		\$1.23				\$1.23
EMPLOYEE BENEFITS				\$1.72				\$1.72
INSURANCE			\$0.19					\$0.19
LAND TAXES						\$109.00		\$109.00
SUPERVISION AND MANAGEMENT				\$23.44				\$23.44
OTHER EXPENSES			\$0.00					\$0.00
<b>SUBTOTAL</b>		<b>0.17 HR</b>	<b>\$0.19</b>	<b>\$26.39</b>		<b>\$109.00</b>		<b>\$135.59</b>

TOTAL OPERATING EXPENSES 1.53 HR \$140.12 \$35.97 \$55.82 \$7.16 \$140.21 \$379.29

NET OPERATING PROFIT (\$58.04)

INTEREST ON OPERATING CAPITAL ( \$70.48 @ 7.00% ) \$4.93  
INTEREST ON EQUIPMENT INVESTMENT \$15.57

RETURN TO LAND AND RISK (\$78.54)

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

GROSS RETURN		\$321.25		
VARIABLE OPERATING EXPENSES	\$203.11			
RETURN OVER VARIABLE EXPENSES		\$118.14	(GROSS MARGIN)	
FIXED EXPENSES	\$140.21			
NET FARM INCOME		(\$22.07)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$35.97			
NET OPERATING PROFIT		(\$58.04)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$20.50			
RETURN TO LAND AND RISK		(\$78.54)		

TABLE 7. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry 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	65.00 CWT		\$240.27
DIRECT PAYMENT	\$0.00	65.00 CWT	0.85	\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
GRAZING	\$9.00	1.00 ACRE		\$9.00
<b>TOTAL</b>				<b>\$249.27</b>

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.23	5 LBS	\$6.15		\$6.15
LIQUID FERT (28-0-0)	\$0.09	500 LBS	\$45.00		\$45.00
NITROGEN (N)	\$0.40	25 LBS	\$10.00		\$10.00
PHOSPHATE (P205)	\$0.31	50 LBS	\$15.50		\$15.50
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>\$110.20</b>		<b>\$110.20</b>

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.11 HR		\$0.82	\$2.39	\$1.66	\$3.67	\$8.54
CHISEL	185 HP	0.15 HR		\$1.12	\$3.26	\$1.17	\$4.51	\$10.06
DISC (2X)	185 HP	0.22 HR		\$1.64	\$4.79	\$3.32	\$7.34	\$17.09
FERT SPREADER	140 HP	0.05 HR		\$0.37	\$0.82	\$0.22	\$2.16	\$3.57
ROD WEEDER	185 HP	0.08 HR		\$0.60	\$1.74	\$0.52	\$2.68	\$5.54
PLANT ER	140 HP	0.17 HR		\$1.27	\$2.79	\$1.09	\$12.55	\$17.70
CULTIVATOR	140 HP	0.13 HR		\$0.97	\$2.13	\$1.05	\$8.12	\$12.27
IRRIGATE (10X)		1.00 HR		\$6.65	\$67.88	\$0.00	\$9.03	\$83.56
<b>SUBTOTAL</b>		<b>1.91 HR</b>		<b>\$13.43</b>	<b>\$85.81</b>	<b>\$9.03</b>	<b>\$50.05</b>	<b>\$158.32</b>

HARVEST OPERATIONS								
COMBINE (CUSTOM)								\$28.43
HAUL (CUSTOM)								\$12.35
<b>SUBTOTAL</b>								<b>\$40.78</b>

OVERHEAD EXPENSES								
DOWNTIME		0.22 HR		\$1.60				\$1.60
EMPLOYEE BENEFITS				\$2.42				\$2.42
INSURANCE			\$0.27					\$0.27
LAND TAXES							\$109.00	\$109.00
SUPERVISION AND MANAGEMENT				\$18.90				\$18.90
OTHER EXPENSES			\$0.00					\$0.00
<b>SUBTOTAL</b>		<b>0.22 HR</b>	<b>\$0.27</b>	<b>\$22.92</b>			<b>\$109.00</b>	<b>\$132.19</b>

<b>TOTAL OPERATING EXPENSES</b>		<b>2.13 HR</b>	<b>\$151.25</b>	<b>\$36.35</b>	<b>\$85.81</b>	<b>\$9.03</b>	<b>\$159.05</b>	<b>\$441.50</b>
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<b>NET OPERATING PROFIT</b>								<b>(\$192.23)</b>
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INTEREST ON OPERATING CAPITAL	(	\$82.21	@	7.00%	)			\$5.75
INTEREST ON EQUIPMENT INVESTMENT								\$24.71

<b>RETURN TO LAND AND RISK</b>								<b>(\$222.70)</b>
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\* Pump water costs are shown under irrigation in the preharvest operations section.

**BUDGET SUMMARY**

GROSS RETURN		\$249.27		
VARIABLE OPERATING EXPENSES	\$246.09			
RETURN OVER VARIABLE EXPENSES		\$3.18	(GROSS MARGIN)	
FIXED EXPENSES	\$159.05			
NET FARM INCOME		(\$155.88)	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	\$36.35			
NET OPERATING PROFIT		(\$192.23)	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	\$30.47			
<b>RETURN TO LAND AND RISK</b>		<b>(\$222.70)</b>		

TABLE 8. Summary of per acre costs and returns for a 640 acre farm with above average management, Curry County, Projected 2005.

	WHEAT	GRAIN SORGHUM
	BUSHELS	CWT
PRIMARY YIELD	75.00	65.00
PRIMARY PRICE	\$3.75	\$3.70
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$40.00 ACRE	\$9.00 ACRE
GROSS RETURN	\$321.25	\$249.27
CASH OPERATING EXPENSES		
SEED	\$19.20	\$6.15
FERTILIZER	\$62.86	\$86.50
CHEMICALS	\$21.17	\$17.25
CROP INSURANCE	\$0.15	\$0.29
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$13.40	\$17.93
FUEL-IRRIGATION	\$42.43	\$67.88
REPAIRS	\$7.16	\$9.03
CUSTOM CHARGES	\$36.55	\$40.78
LAND TAXES	\$109.00	\$109.00
OTHER EXPENSES	\$0.19	\$0.27
TOTAL CASH EXPENSES	\$312.11	\$355.09
RETURN OVER CASH EXPENSES	\$9.14	(\$105.82)
FIXED EXPENSES	\$31.21	\$50.05
TOTAL EXPENSES	\$343.32	\$405.14
NET FARM INCOME	(\$22.07)	(\$155.88)
LABOR AND MANAGEMENT COSTS	\$35.97	\$36.35
NET OPERATING PROFIT	(\$58.04)	(\$192.23)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$4.93	\$5.75
INTEREST ON EQUIPMENT INVESTMENT	\$15.57	\$24.71
TOTAL CAPITAL COSTS	\$20.50	\$30.47
RETURN TO LAND AND RISK	(\$78.54)	(\$222.70)

TABLE 9. Whole farm summary, Curry County,  
Projected 2005.

GROSS RETURNS		
WHEAT	255 ACRES	
CROP		\$71,719
GRAZING		\$10,200
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	170 ACRES	
CROP		\$40,846
GRAZING		\$1,530
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		<u>\$124,294</u>
CASH OPERATING EXPENSES		
SEED		\$7,382
FERTILIZER		\$35,449
CHEMICALS		\$9,920
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$7,468
FUEL-IRRIGATION		\$25,541
REPAIRS		\$3,898
CUSTOM CHARGES		\$18,995
LAND TAXES		\$54,500
OTHER EXPENSES		\$109
TOTAL CASH EXPENSES		<u>\$163,361</u>
RETURN OVER CASH EXPENSES		(\$39,067)
FIXED EXPENSES		\$18,809
TOTAL EXPENSES		\$182,170
NET FARM INCOME		(\$57,876)
LABOR AND MANAGEMENT COSTS		\$18,049
NET OPERATING PROFIT		(\$75,925)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,606
INTEREST ON EQUIPMENT INVESTMENT		\$9,337
TOTAL CAPITAL COSTS		<u>\$11,944</u>
RETURN TO LAND AND RISK		<u>(\$87,869)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$97,469)	-17.54%
\$1,000 /ACRE	(\$107,069)	-10.08%
\$1,500 /ACRE	(\$116,669)	-7.08%
\$2,000 /ACRE	(\$126,269)	-5.45%
\$2,500 /ACRE	(\$135,869)	-4.43%

\* 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)