

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

BUDGET AREA.....	CURRY COUNTY
FARM SIZE.....	520 ACRES
IRRIGATION TYPE.....	FLOOD
NUMBER OF CROPS..	2

ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		AC.IN. PER AC.	TOTAL AC.IN.
WHEAT	255	15	3,825
ARP	0		
FLEX IN WHEAT	45	15	675
GRAIN SORGHUM	170	20	3,400
ARP	0		
FLEX IN WHEAT	30	15	450
ROADS, DITCHES HOMESTEAD	20		
TOTAL	520		8,350
ACRE FEET PER ACRE OF WATER RIGHTS			1.34

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

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.55
General & Irrigators	\$/hour	\$6.45
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.29
Phosphate (P205)	\$/pound	\$0.20
Anhydrous (NH3)	\$/ton	\$450.00
Seed:		
Grain Sorghum	\$/pound	\$1.30
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 Propety 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
Telephone		\$120.00 per month
Accounting & Legal		\$1,660
Misc. Supplies & Hand Tools		\$2,480
Pickup and Auto		
miles	20,000 @	\$0.365 per mile
Insurance		\$7,300
- general liability (non-employee)		\$2,220
- fire/theft		\$1,775
Property Taxes		
- non-planted land		\$89
- other than land & machinery		\$635
Building repairs and maintenance		\$1,470
Dues, fees, publications		\$400
Farmstead Equipment		\$170
	Total	\$22,279
	Total Per Planted Acre	\$52.42

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

INPUT DATA

		DEPTH CHARACTERISTICS:	
		STATIC.....	300
		DRAW DOWN.....	35
		TOTAL HEAD.....	335
		CASING.....	400
GALLONS PER MINUTE (GPM)	550		
WORK HORSEPOWER	47		
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 COSTS

ELECTRIC WELL:		
COST PER HOUR		\$3.26
COST PER ACRE INCH		\$2.68
NATURAL GAS WELL:		
COST PER HOUR		\$6.04
COST PER ACRE INCH		\$4.97
LP GAS WELL:		
COST PER HOUR		\$10.03
COST PER ACRE INCH		\$8.25
DIESEL WELL:		
COST PER HOUR		\$7.87
COST PER ACRE INCH		\$6.47

TABLE 5. Equipment summary for a 520 acre flood-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	146	1	\$13,188	\$1,721	\$842	\$11.78	\$5.76	\$3,493	\$1,969	\$37.39
TRACTOR	185 HP	336	1	\$38,035	\$5,226	\$3,318	\$15.58	\$9.89	\$5,995	\$3,379	\$27.94
DISC	20 FT OFFSET	165	1	\$9,000		\$0		\$0.00	\$1,200	\$676	\$11.37
DRILL	20 FT	43	1	\$3,600		\$266		\$6.19	\$720	\$271	\$23.09
FERT SPREADER/ DEALER FURNISHEI		17									
CHISEL	9 PT	26	1	\$1,350		\$25		\$1.00	\$180	\$101	\$11.04
CULTIVATOR	6 ROW	44	1	\$2,500		\$75		\$1.70	\$333	\$188	\$11.79
LISTER	6 ROW	60	1	\$2,150		\$80		\$1.33	\$287	\$162	\$7.47
PLANTER	6 ROW	29	1	\$4,250		\$174		\$6.04	\$850	\$319	\$40.46
ROD WEEDER	23 FT	14	1	\$625		\$7		\$0.54	\$83	\$47	\$9.58
ELECTRIC WELL		6,871	2	\$28,000	\$22,372	\$622	\$3.26	\$0.09	\$2,545	\$2,104	\$0.68
TOTAL				\$102,698	\$29,319	\$5,410			\$15,687	\$9,216	

TABLE 6. Wheat, flood-irrigated, budgeted per acre costs and returns for a 520 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
GROSS RETURNS				
WHEAT	\$3.75	40.00 BUSHELS		\$150.00
DIRECT PAYMENT	\$0.52	40.00 BUSHEL	0.85	\$17.68
COUNTER CYCLICAL PAYMENT	\$0.00			\$0.00
GRAZING	\$40.00	1.00 ACRE		\$40.00
TOTAL				\$207.68

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.18	60 LBS	\$10.80		\$10.80
ANHYDROUS AMMONIA (NH3)	\$0.23	100 LBS	\$22.50		\$22.50
NITROGEN (N)	\$0.29	18 LBS	\$5.22		\$5.22
PHOSPHORUS (P205)	\$0.20	46 LBS	\$9.20		\$9.20
INSECTICIDE (CUSTOM)	\$9.59	1 ACRE	\$9.59		\$9.59
HERBICIDE (CUSTOM)	\$10.69	1 ACRE	\$10.69		\$10.69
PUMP WATER*		15 AC. IN.			
CROP INSURANCE	\$0.15		\$0.15		\$0.15
SUBTOTAL			\$68.15		\$68.15

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DISC (3X)	185 HP	0.33 HR		\$2.49	\$5.14	\$3.26	\$12.97	\$23.87
ANHYDROUS APPL	185 HP	0.17 HR		\$1.28	\$2.65	\$1.68	\$4.75	\$10.36
LISTER	185 HP	0.12 HR		\$0.91	\$1.87	\$1.35	\$4.25	\$8.37
FERT SPREADER	145 HP	0.05 HR		\$0.38	\$0.59	\$0.29	\$1.87	\$3.12
DRILL	145 HP	0.13 HR		\$0.98	\$1.53	\$1.55	\$7.86	\$11.93
IRRIGATE (3X)		1.50 HR		\$9.68	\$40.19	\$1.12	\$8.35	\$59.33
SUBTOTAL		2.30 HR		\$15.72	\$51.97	\$9.25	\$40.06	\$116.99

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$19.99					\$19.99
HAUL (CUSTOM)			\$6.40					\$6.40
SUBTOTAL			\$26.39					\$26.39

OVERHEAD EXPENSES								
DOWNTIME		0.20 HR		\$1.51				\$1.51
EMPLOYEE BENEFITS				\$2.83				\$2.83
INSURANCE			\$0.31					\$0.31
LAND TAXES						\$0.91		\$0.91
SUPERVISION AND MANAGEMENT				\$16.44				\$16.44
OTHER EXPENSES			\$52.42					\$52.42
SUBTOTAL		0.20 HR	\$52.74	\$20.78			\$0.91	\$74.42

TOTAL OPERATING EXPENSES 2.50 HR \$147.27 \$36.49 \$51.97 \$9.25 \$40.97 \$285.95

NET OPERATING PROFIT (\$78.27)

INTEREST ON OPERATING CAPITAL (\$51.58 @ 6.50%) \$3.35
 INTEREST ON EQUIPMENT INVESTMENT \$11.01

RETURN TO LAND AND RISK (\$92.63)

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

GROSS RETURN		\$207.68	
VARIABLE OPERATING EXPENSES	\$208.49		
RETURN OVER VARIABLE EXPENSES		(\$0.81)	(GROSS MARGIN)
FIXED EXPENSES	\$40.97		
NET FARM INCOME		(\$41.78)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$36.49		
NET OPERATING PROFIT		(\$78.27)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$14.37		
RETURN TO LAND AND RISK		(\$92.63)	

TABLE 7. Grain sorghum, flood-irrigated, budgeted per acre costs and returns for a 520 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
GROSS RETURNS				
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
TOTAL				\$216.72

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.30	5 LBS	\$6.50		\$6.50
ANHYDROUS (NH3)	\$0.23	150 LBS	\$33.75		\$33.75
NITROGEN (N)	\$0.29	25 LBS	\$7.25		\$7.25
PHOSPHORUS (P205)	\$0.20	50 LBS	\$10.00		\$10.00
HERBICIDE (CUSTOM)	\$14.11	1 X/ACRE	\$14.11		\$14.11
INSECTICIDE (CUSTOM)	\$13.49	1 X/ACRE	\$13.49		\$13.49
TRACE ELEMENTS	\$13.89	1 ACRE	\$13.89		\$13.89
PUMP WATER*		20 AC. IN.			
CROP INSURANCE	\$0.29		\$0.29		\$0.29
SUBTOTAL			\$99.28		\$99.28

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	\$1.09	\$4.32	\$7.96
CHISEL	185 HP	0.15 HR		\$1.13	\$2.34	\$1.63	\$5.85	\$10.95
DISC (2X)	185 HP	0.22 HR		\$1.66	\$3.43	\$2.18	\$8.65	\$15.91
ANHYDROUS APPL	185 HP	0.17 HR		\$1.28	\$2.65	\$1.68	\$4.75	\$10.36
LISTER	185 HP	0.12 HR		\$0.91	\$1.87	\$1.35	\$4.25	\$8.37
PRE-IRRIGATE		0.50 HR		\$3.78	\$10.72	\$0.30	\$2.23	\$17.02
ROD WEEDER	140 HP	0.08 HR		\$0.60	\$0.94	\$0.50	\$3.76	\$5.81
PLANTER	140 HP	0.17 HR		\$1.28	\$2.00	\$2.01	\$13.23	\$18.53
CULTIVATOR (2X)	140 HP	0.26 HR		\$1.96	\$3.06	\$1.94	\$12.79	\$19.75
IRRIGATE (4X)		2.00 HR		\$12.90	\$42.87	\$1.19	\$8.91	\$65.87
SUBTOTAL		3.78 HR		\$26.34	\$71.59	\$13.87	\$68.73	\$180.53

HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$23.67					\$23.67
HAUL (CUSTOM)			\$9.12					\$9.12
SUBTOTAL			\$32.79					\$32.79

OVERHEAD EXPENSES								
DOWNTIME		0.32 HR		\$2.42				\$2.42
EMPLOYEE BENEFITS				\$4.74				\$4.74
INSURANCE			\$0.53					\$0.53
LAND TAXES							\$0.91	\$0.91
SUPERVISION AND MANAGEMENT				\$18.06				\$18.06
OTHER EXPENSES			\$52.42					\$52.42
SUBTOTAL		0.32 HR	\$52.95	\$25.22			\$0.91	\$79.08

TOTAL OPERATING EXPENSES 4.10 HR \$185.02 \$51.56 \$71.59 \$13.87 \$69.64 \$391.67

NET OPERATING PROFIT (\$174.95)

INTEREST ON OPERATING CAPITAL (\$73.74 @ 6.50%) \$4.79
INTEREST ON EQUIPMENT INVESTMENT \$19.34

RETURN TO LAND AND RISK (\$199.08)

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

BUDGET SUMMARY

GROSS RETURN		\$216.72	
VARIABLE OPERATING EXPENSES	\$270.47		
RETURN OVER VARIABLE EXPENSES		(\$53.75)	(GROSS MARGIN)
FIXED EXPENSES	\$69.64		
NET FARM INCOME		(\$123.40)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$51.56		
NET OPERATING PROFIT		(\$174.95)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$24.13		
RETURN TO LAND AND RISK		(\$199.08)	

TABLE 8. Summary of per acre costs and returns for a 520 acre farm with above average management, Curry County, 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	\$10.80	\$6.50
FERTILIZER	\$36.92	\$64.89
CHEMICALS	\$20.28	\$27.60
CROP INSURANCE	\$0.15	\$0.29
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$11.78	\$18.00
FUEL-IRRIGATION	\$40.19	\$53.59
REPAIRS	\$9.25	\$13.87
CUSTOM CHARGES	\$26.39	\$32.79
LAND TAXES	\$0.91	\$0.91
OTHER EXPENSES	\$52.74	\$52.95
TOTAL CASH EXPENSES	\$209.40	\$271.38
RETURN OVER CASH EXPENSES	(\$1.72)	(\$54.66)
FIXED EXPENSES	\$40.06	\$68.73
TOTAL EXPENSES	\$249.46	\$340.12
NET FARM INCOME	(\$41.78)	(\$123.40)
LABOR AND MANAGEMENT COSTS	\$36.49	\$51.56
NET OPERATING PROFIT	(\$78.27)	(\$174.95)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$3.35	\$4.79
INTEREST ON EQUIPMENT INVESTMENT	\$11.01	\$19.34
TOTAL CAPITAL COSTS	\$14.37	\$24.13
RETURN TO LAND AND RISK	<u>(\$92.63)</u>	<u>(\$199.08)</u>

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

GROSS RETURNS		
WHEAT	330 ACRES	
CROP		\$49,500
GRAZING		\$13,200
DIRECT PAYMENT		\$4,508
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>\$104,051</u>
CASH OPERATING EXPENSES		
SEED		\$4,669
FERTILIZER		\$23,215
CHEMICALS		\$11,382
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$6,947
FUEL-IRRIGATION		\$22,372
REPAIRS		\$5,410
CUSTOM CHARGES		\$14,283
LAND TAXES		\$455
OTHER EXPENSES		\$26,404
TOTAL CASH EXPENSES		<u>\$115,238</u>
RETURN OVER CASH EXPENSES		(\$11,187)
FIXED EXPENSES		\$24,903
TOTAL EXPENSES		\$140,141
NET FARM INCOME		(\$36,090)
LABOR AND MANAGEMENT COSTS		\$20,807
NET OPERATING PROFIT		(\$56,897)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$1,921
INTEREST ON EQUIPMENT INVESTMENT		\$6,922
TOTAL CAPITAL COSTS		<u>\$8,843</u>
RETURN TO LAND AND RISK		<u>(\$65,739)</u>
LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$76,139)	-15.69%
\$1,000 /ACRE	(\$86,539)	-9.14%
\$1,500 /ACRE	(\$96,939)	-6.45%
\$2,000 /ACRE	(\$107,339)	-4.98%
\$2,500 /ACRE	(\$117,739)	-4.06%

* 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)