

TABLE 1. Basic cost information for Curry County, 2002.

Item			
Labor Wage Rate:			
Equipment operators	\$/hour		\$7.55
General & Irrigators	\$/hour		\$6.75
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)	\$/pound		\$0.32
Phosphate (P205)	\$/pound		\$0.30
Seed:			
Corn	\$/bag		\$89.75
Wheat	\$/pound		\$0.16
Diesel fuel	\$/gallon		\$1.05
Gasoline	\$/gallon		\$1.00
Electricity (SWPS)	cents/KwH		5.81
LP gas	\$/gallon		\$0.86
Natural gas (Gas NM)	\$/MCF		\$3.28
Employee Liability Insurance	\$/1,000wages		\$20.00
Employee Benefits	percent/wages		18.00%
Labor Downtime	percent		25.00%
Financial Rates:			
Operating Capital Interest Rate	percent		8.00%
Land Interest Rate	percent		7.50%
Equipment Interest Rate	percent		8.00%
Real Interest Rate	percent		4.00%
Land Taxes	\$109.00 /acre (full value)		\$0.92
Personal Property Tax Rate - NR	\$/1,000 (Assessed Value)		\$25.25
- R			\$25.25
Supervision Factors			
Field Crop-Irrigation	\$/labor hour		\$1.00
Field Crop-Equipment & General	\$/labor hour		\$0.50
Management Rate	percent		7.00%

BUDGET AREA..... CURRY COUNTY, 2002.
 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 RIGHT			1.05

TABLE 1a. Overhead cost information for Curry County, 2002.

ITEM				
Electricity (Domestic & Shop)			\$205.00 per month	\$2,460
Telephone			\$105.00 per month	\$1,260
Accounting & Legal				\$1,510
Misc. Supplies & Hand Tools				\$2,260
Pickup and Auto				
miles	20,000	@	\$0.345 per mile	\$6,900
Insurance				
- general liability (non-employee)				\$2,030
- fire/theft				\$1,625
Property Taxes				
- non-planted land				\$589
- other than land & machinery				\$560
Building repairs and maintenance				\$1,345
Dues, fees, publications				\$360
Farmstead Equipment				\$155
Total				\$21,054
Total Per Planted Acre				\$42.11

TABLE 2. Pumping costs and data for Curry County, 2002.

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.....	5.81	CENTS/KwHr	
NATURAL GAS.....	\$3.28	\$/MCF	
LP GAS.....	\$0.86	\$/GAL	
DIESEL.....	\$1.05	\$/GAL	

FUEL PUMPING COSTS

ELECTRIC WELL:	
COST PER HOUR.....	\$4.38
COST PER ACRE INCH.....	\$3.60
NATURAL GAS WELL:	
COST PER HOUR.....	\$3.51
COST PER ACRE INCH.....	\$2.89
LP GAS WELL:	
COST PER HOUR.....	\$9.10
COST PER ACRE INCH.....	\$7.49
DIESEL WELL:	
COST PER HOUR.....	\$7.03
COST PER ACRE INCH.....	\$5.79

TABLE 3. Equipment summary for a 640 acre sprinkler-irrigated wheat/corn farm with above average management, Curry County, 2002.

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	VARIABLE COSTS					FIXED COSTS		
			TOTAL VALUE	FUEL AND LUBRICANT	REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPREC- IATION	TAXES	TOTAL PER HOUR
TRACTOR 140 HP	142	1	\$20,700	\$1,171	\$819	\$8.25	\$5.76	\$3,493	\$221	\$26.15
TRACTOR 185 HP	240	1	\$47,275	\$2,617	\$971	\$10.90	\$4.05	\$5,995	\$378	\$26.55
DISC 18 FT OFFSET	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	\$29.75
FERT SPREADER DEALER FURN	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	\$8.91
PLANTER 6-ROW	52	1	\$4,250	\$0	\$433	\$0.00	\$8.33	\$850	\$36	\$17.03
INJECTOR PUMP	6632	4	\$2,400	\$0	\$0	\$0.00	\$0.00	\$480	\$10	\$0.07
TOWABLE SPRINKLER	6632	4	\$60,000	\$289	\$6,002	\$0.04	\$0.91	\$8,000	\$505	\$1.28
ELECTRIC WELL	6632	4	\$52,000	\$29,035	\$600	\$4.38	\$0.09	\$4,727	\$438	\$0.78
TOTAL			\$201,575	\$33,112	\$9,084			\$25,779	\$1,713	

TABLE 4. Wheat, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, 2002.
 Planting Dates: August 15 - September 15
 Harvesting Dates: June 15 - July 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
WHEAT	\$3.40	75 BUSHEL						\$255.00
ASCS DEFICIENCY	\$0.474	75 BUSHEL						\$35.55
ASCS DIVERSION	\$0.00							\$0.00
GRAZING	\$40.00	1 ACRE						\$40.00
TOTAL							\$330.55	
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$0.16	80 LBS	\$12.80					\$12.80
LIQUID FERT (28-0-0)	\$0.07	460 LBS	\$33.35					\$33.35
NITROGEN (N)	\$0.32	18 LBS	\$5.76					\$5.76
PHOSPHATE (P205)	\$0.30	46 LBS	\$13.80					\$13.80
INSECTICIDE (CUSTOM)	\$10.90	1 ACRE	\$10.90					\$10.90
HERBICIDE (CUSTOM)	\$10.90	1 ACRE	\$10.90					\$10.90
PUMP WATER*		10 AC. IN.						
CROP INSURANCE	\$0.26		\$0.26					\$0.26
SUBTOTAL			\$87.77					\$87.77
PREHARVEST OPERATIONS								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	185 HP	0.15 HR		\$1.13	\$1.64	\$0.73	\$4.37	\$7.86
DISC (3X)	185 HP	0.33 HR		\$2.49	\$3.60	\$1.34	\$10.89	\$18.31
FERT SPREADER-ANHY	140 HP	0.05 HR		\$0.38	\$0.41	\$0.29	\$1.31	\$2.39
DRILL	140 HP	0.13 HR		\$0.98	\$1.07	\$1.41	\$7.27	\$10.73
IRRIGATE (7X)		0.70 HR		\$4.73	\$36.38	\$8.19	\$17.57	\$66.87
SUBTOTAL		1.36 HR		9.71	43.10	11.96	41.40	106.17
HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$8.76					\$8.76
HAUL (CUSTOM)			\$12.00					\$12.00
SUBTOTAL			\$20.76					\$20.76
OVERHEAD EXPENSES								
DOWNTIME		0.17 HR		\$1.25				\$1.25
EMPLOYEE BENEFITS				\$1.75				\$1.75
INSURANCE			\$0.19					\$0.19
LAND TAXES							\$0.92	\$0.92
SUPERVISION AND MANAGEMENT				\$24.09				\$24.09
OTHER EXPENSES			\$42.11					\$42.11
SUBTOTAL		0.17 HR	\$42.30	\$27.09			\$0.92	\$70.31
TOTAL OPERATING EXPENSES		1.53 HR	\$150.83	\$36.79	\$43.10	\$11.96	\$42.32	\$285.00
NET OPERATING PROFIT								\$45.55
INTEREST ON OPERATING CAPITAL	(\$59.38	@	8.00%				\$4.75
INTEREST ON EQUIPMENT INVESTMENT								\$15.56
RETURN TO LAND AND RISK								\$25.24

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

BUDGET SUMMARY

GROSS RETURN		\$330.55	
VARIABLE OPERATING EXPENSES	\$205.89		
RETURN OVER VARIABLE EXPENSES		\$124.66	(GROSS MARGIN)
FIXED EXPENSES	\$42.32		
NET FARM INCOME		\$82.34	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$36.79		
NET OPERATING PROFIT		\$45.55	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$20.31		
RETURN TO LAND AND RISK		\$25.24	

TABLE 5. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, 2002.
Planting Dates: April 15 - May 15
Harvesting Dates: September 1 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
CORN FOR GRAIN	\$3.84	105 CWT						\$403.20
ASCS DEFICIENCY	\$0.50	105 CWT						\$52.50
ASCS DIVERSION	\$0.00	0 CWT						\$0.00
GRAZING	\$10.00	1 ACRE						\$10.00
TOTAL								\$465.70
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
SEED	\$1.12	34 000	\$38.14					\$38.14
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)	\$0.30	100 LBS	\$30.00					\$30.00
NITROGEN (N)	\$0.32	50 LBS	\$16.00					\$16.00
HERBICIDE (SYSTEM)	\$16.59	1 X/ACRE	\$16.59					\$16.59
INSECTICIDE (SYSTEM)	\$10.90	2 X/ACRE	\$21.80					\$21.80
TRACE ELEMENTS	\$15.63	1 ACRE	\$15.63					\$15.63
PUMP WATER*		20 AC. IN.						
CROP INSURANCE	\$0.16		\$0.16					\$0.16
SUBTOTAL								\$210.37
PREHARVEST OPERATIONS								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.11 HR		\$0.83	\$1.20	\$0.45	\$3.63	\$6.10
CHISEL	185 HP	0.15 HR		\$1.13	\$1.64	\$0.73	\$4.37	\$7.86
DISC (2X)	185 HP	0.22 HR		\$1.66	\$2.40	\$0.89	\$7.26	\$12.21
FERT SPREADER	140 HP	0.05 HR		\$0.38	\$0.41	\$0.29	\$1.31	\$2.39
PLANTER	140 HP	0.17 HR		\$1.28	\$1.40	\$2.40	\$7.34	\$12.42
CULTIVATOR	140 HP	0.13 HR		\$0.98	\$1.07	\$0.97	\$4.56	\$7.58
IRRIGATE (14X)		1.40 HR		\$9.45	\$72.76	\$16.38	\$33.92	\$132.52
SUBTOTAL		2.23 HR		\$15.72	\$80.88	\$22.10	\$62.38	\$181.08
HARVEST OPERATIONS								
COMBINE (CUSTOM)			\$20.00					\$20.00
HAUL (CUSTOM)			\$18.90					\$18.90
SUBTOTAL			\$38.90					\$38.90
OVERHEAD EXPENSES								
DOWNTIME		0.21 HR		\$1.57				\$1.57
EMPLOYEE BENEFITS				\$2.83				\$2.83
INSURANCE			\$0.31					\$0.31
LAND TAXES						\$0.92		\$0.92
SUPERVISION AND MANAGEMENT				\$34.41				\$34.41
OTHER EXPENSES			\$42.11					\$42.11
SUBTOTAL			\$42.42	\$38.81			\$0.92	\$82.15
TOTAL OPERATING EXPENSES		2.44 HR	\$291.69	\$54.53	\$80.88	\$22.10	\$63.30	\$512.50
NET OPERATING PROFIT								(\$46.80)
INTEREST ON OPERATING CAPITAL	(\$134.17	@	8.00%)			\$10.73
INTEREST ON EQUIPMENT INVESTMENT								\$21.16
RETURN TO LAND AND RISK								(\$78.70)

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

BUDGET SUMMARY

GROSS RETURN		\$465.70	
VARIABLE OPERATING EXPENSES	\$394.68		
RETURN OVER VARIABLE EXPENSES		\$71.02	(GROSS MARGIN)
FIXED EXPENSES	\$63.30		
NET FARM INCOME		\$7.72	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$54.53		
NET OPERATING PROFIT		(\$46.80)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$31.89		
RETURN TO LAND AND RISK		(\$78.70)	

TABLE 6. Summary of per acre costs and returns for a 640 acre farm with above average management Curry County, 2002.

	WHEAT	CORN FOR GRAIN
	-----SPRINKLER-----	
PRIMARY YIELD	75.00 BUSHELS	105.00 CWT
PRIMARY PRICE	\$3.40	3.84
GOVERNMENT PAYMENTS	\$0.47	52.50
SECOND INCOME	\$40.00 ACRE	10.00 ACRE
GROSS RETURN	\$330.55	\$465.70
CASH OPERATING EXPENSES		
SEED	\$12.80	\$38.14
FERTILIZER	\$52.91	\$133.68
CHEMICALS	\$21.80	\$38.39
CROP INSURANCE	\$0.26	\$0.16
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$6.72	\$8.12
FUEL-IRRIGATION	\$36.38	\$72.76
REPAIRS	\$11.96	\$22.10
CUSTOM CHARGES	\$20.76	\$38.90
LAND TAXES	\$0.92	\$0.92
OTHER EXPENSES	\$42.30	\$42.42
TOTAL CASH EXPENSES	\$206.81	\$395.60
RETURN OVER CASH EXPENSES	\$123.74	\$70.10
FIXED EXPENSES	\$41.40	\$62.38
TOTAL EXPENSES	\$248.21	\$457.98
NET FARM INCOME	\$82.34	\$7.72
LABOR AND MANAGEMENT COSTS	\$36.79	\$54.53
NET OPERATING PROFIT	\$45.55	(\$46.80)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$4.75	\$10.73
INTEREST ON EQUIPMENT INVESTMENT	\$15.56	\$21.16
TOTAL CAPITAL COSTS	\$20.31	\$31.89
RETURN TO LAND AND RISK	\$25.24	(\$78.70)

TABLE 7. Whole farm summary, Curry County, 2002.

GROSS RETURNS		
WHEAT	194 ACRES	
CROP		\$49,470
GRAZING		\$7,760
ASCS DEFICIENCY		\$4,230
ASCS DIVERSION		\$0
CORN FOR GRAIN	306 ACRES	
CROP		\$123,379
GRAZING		\$3,060
ASCS DEFICIENCY		\$16,065
ASCS DIVERSION		\$0
GROSS RETURN		\$203,965
CASH OPERATING EXPENSES		
SEED		\$14,155
FERTILIZER		\$51,169
CHEMICALS		\$15,976
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$3,788
FUEL-IRRIGATION		\$29,324
REPAIRS		\$9,084
CUSTOM CHARGES		\$15,931
LAND TAXES		\$459
OTHER EXPENSES		\$21,188
TOTAL CASH EXPENSES		\$161,174
RETURN OVER CASH EXPENSES		\$42,791
FIXED EXPENSES		\$27,120
TOTAL EXPENSES		\$188,294
NET FARM INCOME		\$15,671
LABOR AND MANAGEMENT COSTS		\$23,823
NET OPERATING PROFIT		(\$8,152)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$4,206
INTEREST ON EQUIPMENT INVESTMENT		\$9,493
TOTAL CAPITAL COSTS		\$13,699
RETURN TO LAND AND RISK		(\$21,851)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$34,651)	-1.56%
\$1,000 /ACRE	(\$47,451)	-0.97%
\$1,500 /ACRE	(\$60,251)	-0.70%
\$2,000 /ACRE	(\$73,051)	-0.55%
\$2,500 /ACRE	(\$85,851)	-0.45%

* 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)