

TABLE 1. Basic cost information for Curry County, 2003.

Item			
Labor Wage Rate:			
Equipment operators		\$/hour	\$7.55
General & Irrigators		\$/hour	\$6.75
Purchased Inputs:			
Fertilizer:			
Nitrogen (N)		\$/pound	\$0.36
Phosphate (P205)		\$/pound	\$0.33
Seed:			
Corn		\$/bag	\$89.75
Wheat		\$/pound	\$0.13
Diesel fuel		\$/gallon	\$1.30
Gasoline		\$/gallon	\$1.35
Electricity (SWPS)		cents/KwH	5.50
LP gas		\$/gallon	\$1.21
Natural gas (Gas NM)		\$/MCF	\$3.28
Employee Liability Insurance		\$/ \$1,000 wages	\$20.00
Employee Benefits		percent/w ages	18.00%
Labor Downtime		percent	25.00%
Financial Rates:			
Operating Capital Interest Rate		percent	8.00%
Land Interest Rate		percent	7.00%
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%

TABLE 1a. Overhead cost information for Curry County, 2003.

ITEM			
Electricity (Domestic & Shop)		\$210.00 per month	\$2,520
Telephone		\$110.00 per month	\$1,320
Accounting & Legal			\$1,555
Misc. Supplies & Hand Tools			\$2,330
Pickup and Auto			
miles	20,000	@ \$0.365 per mile	\$7,300
Insurance			
- general liability (non-employee)			\$2,090
- fire/theft			\$1,675
Property Taxes			
- non-planted land			\$589
- other than land & machinery			\$575
Building repairs and maintenance			\$1,385
Dues, fees, publications			\$370
Farmstead Equipment			\$160
Total			\$21,869
Total Per	Planted Acre		\$43.74

TABLE 2. Pumping costs and data for Curry County, 2003.

INPUT DATA

DELIVERY PSI:		DEPTH CHARACTERISTICS:	
SPRINKLER...	40	STATIC... ..	300
		DRAW DOV	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/K	WH
NATURAL GAS.	\$3.28	\$/MCF	
LP GAS..... ..	\$1.21	\$/GAL	
DIESEL..... ..	\$1.30	\$/GAL	

FUEL PUMPING COSTS

ELECTRIC WELL:	
COST PER HOUR.....	\$4.15
COST PER ACRE INCH	\$3.41
NATURAL GAS WELL:	
COST PER HOUR.....	\$3.51
COST PER ACRE INCH	\$2.89
LP GAS WELL:	
COST PER HOUR.....	\$12.79
COST PER ACRE INCH	\$10.52
DIESEL WELL:	
COST PER HOUR.....	\$8.70
COST PER ACRE INCH	\$7.16

TABLE 3. Equipment summary for a 640 acre sprinkler-irrigated wheat/corn farm with above average management, Curry County, 2003.

EQUIPMENT ITEM & SIZE	ANNUAL		VARIABLE COSTS					FIXED COSTS		
	HOURS OF USE	NUMBER	TOTAL VALUE	FUEL AND LUBRICAN	REPAIR	FUEL,LUBE PER HR	REPAIR PER HR	DEPRECIATION	TOTAL TAXES PER HOUR	
TRACTOR 140 HP	142	1	\$19,060	\$1,450	\$819	\$10.21	\$5.76	\$3,493	\$221	\$26.15
TRACTOR 185 HP	240	1	\$40,700	\$3,240	\$971	\$13.50	\$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 FURNI:	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	\$274	\$6,002	\$0.04	\$0.91	\$8,000	\$505	\$1.28
ELECTRIC WELL	6632	4	\$52,000	\$27,496	\$600	\$4.15	\$0.09	\$4,727	\$438	\$0.78
TOTAL			\$193,360	\$32,460	\$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, 2003.
 Planting Dates: August 15 - September 15
 Harvesting Dates: June 15 - July 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
WHEAT	\$3.45	38 BUSHEL						\$131.10
DIRECT PAYMENT	\$0.52	38 BUSHEL						\$19.76
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00
GRAZING	\$40.00	1 ACRE						\$40.00
TOTAL								\$190.86
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS			TOTAL		
SEED	\$0.13	80 LBS	\$10.40			\$10.40		
LIQUID FERT (28-0-0)	\$0.07	460 LBS	\$33.35			\$33.35		
NITROGEN (N)	\$0.36	18 LBS	\$6.48			\$6.48		
PHOSPHATE (P205)	\$0.33	46 LBS	\$15.18			\$15.18		
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		
SUBTOTAL			\$87.99			\$87.99		
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	\$2.02	\$0.73	\$4.37	\$8.25
DISC (3X)	185 HP	0.33 HR		\$2.49	\$4.45	\$1.34	\$10.89	\$19.17
FERT SPREADER-ANHY	140 HP	0.05 HR		\$0.38	\$0.51	\$0.29	\$1.31	\$2.48
DRILL	140 HP	0.13 HR		\$0.98	\$1.33	\$1.41	\$7.27	\$10.99
IRRIGATE (7X)		0.70 HR		\$4.73	\$34.45	\$8.19	\$17.57	\$64.94
SUBTOTAL		1.36 HR		9.71	42.77	11.96	41.40	105.84
HARVEST OPERATIONS								
COMBINE (CUSTOM)				\$1.73				\$1.73
HAUL (CUSTOM)				\$6.08				\$6.08
SUBTOTAL				\$7.81				\$7.81
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				\$14.32				\$14.32
OTHER EXPENSES				\$43.74				\$43.74
SUBTOTAL		0.17 HR		\$43.93	\$17.31		\$0.92	\$62.16
TOTAL OPERATING EXPENSES		1.53 HR		\$139.74	\$27.02	\$42.77	\$11.96	\$263.80
NET OPERATING PROFIT								(\$72.94)
INTEREST ON OPERATING CAPITAL	(\$58.33	@	8.00%)			\$4.67
INTEREST ON EQUIPMENT INVESTMENT								\$15.56
RETURN TO LAND AND RISK								(\$93.17)

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

GROSS RETURN		\$190.86	
VARIABLE OPERATING EXPENSES	\$194.47		
RETURN OVER VARIABLE EXPENSES		(\$3.61)	(GROSS MARGIN)
FIXED EXPENSES	\$42.32		
NET FARM INCOME		(\$45.92)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$27.02		
NET OPERATING PROFIT		(\$72.94)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$20.23		
RETURN TO LAND AND RISK		(\$93.17)	

TABLE 5. Corn for grain, sprinkler-irrigated, budgeted per acre costs and returns for a 640 acre farm with above average management, Curry County, 2003.
 Planting Dates: April 15 - May 15
 Harvesting Dates: September 1 - October 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
CORN FOR GRAIN	\$5.08	103 CWT						\$523.24
DIRECT PAYMENT	\$0.50	103 CWT						\$51.50
COUNTER CYCLICAL PAYMENT	\$0.00	0 CWT						\$0.00
GRAZING	\$10.00	1 ACRE						\$10.00
TOTAL							\$584.74	
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)	\$0.33	100 LBS	\$33.00				\$33.00	
NITROGEN (N)	\$0.36	50 LBS	\$18.00				\$18.00	
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	
SUBTOTAL							\$216.67	
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
DISC	185 HP	0.11 HR		\$0.83	\$1.48	\$0.45	\$3.63	\$6.39
CHISEL	185 HP	0.15 HR		\$1.13	\$2.02	\$0.73	\$4.37	\$8.25
DISC (2X)	185 HP	0.22 HR		\$1.66	\$2.97	\$0.89	\$7.26	\$12.78
FERT SPREADER	140 HP	0.05 HR		\$0.38	\$0.51	\$0.29	\$1.31	\$2.48
PLANTER	140 HP	0.17 HR		\$1.28	\$1.74	\$2.40	\$7.34	\$12.76
CULTIVATOR	140 HP	0.13 HR		\$0.98	\$1.33	\$0.97	\$4.56	\$7.84
IRRIGATE (14X)		1.40 HR		\$9.45	\$68.91	\$16.38	\$33.92	\$128.66
SUBTOTAL		2.23 HR		\$15.72	\$78.96	\$22.10	\$62.38	\$179.16
HARVEST OPERATIONS								
COMBINE (CUSTOM)				\$19.62				\$19.62
HAUL (CUSTOM)				\$18.54				\$18.54
SUBTOTAL				\$38.16				\$38.16
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				\$42.75				\$42.75
OTHER EXPENSES				\$43.74				\$43.74
SUBTOTAL		0.21 HR		\$44.05	\$47.14		\$0.92	\$92.11
TOTAL OPERATING EXPENSES		2.44 HR		\$298.88	\$62.86	\$78.96	\$22.10	\$63.30
NET OPERATING PROFIT								\$58.64
INTEREST ON OPERATING CAPITAL	(\$136.78	@	8.00%)			\$10.94
INTEREST ON EQUIPMENT INVESTMENT								\$21.16
RETURN TO LAND AND RISK								\$26.54

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

BUDGET SUMMARY

GROSS RETURN		\$584.74	
VARIABLE OPERATING EXPENSES	\$399.94		
RETURN OVER VARIABLE EXPENSES		\$184.80	(GROSS MARGIN)
FIXED EXPENSES	\$63.30		
NET FARM INCOME		\$121.50	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$62.86		
NET OPERATING PROFIT		\$58.64	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$32.10		
RETURN TO LAND AND RISK		\$26.54	

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	38.00	BUSHEL	103.00	CWT
PRIMARY PRICE	\$3.45		5.08	
GOVERNMENT PAYMENTS	\$0.52		51.50	
SECOND INCOME	\$40.00	ACRE	10.00	ACRE
GROSS RETURN	\$190.86		\$584.74	
CASH OPERATING EXPENSES				
SEED	\$10.40		\$38.14	
FERTILIZER	\$55.01		\$139.05	
CHEMICALS	\$22.32		\$39.31	
CROP INSURANCE	\$0.26		\$0.16	
OTHER PURCHASED INPUTS				
CANAL WATER				
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$8.32		\$10.05	
FUEL-IRRIGATION	\$34.45		\$68.91	
REPAIRS	\$11.96		\$22.10	
CUSTOM CHARGES	\$7.81		\$38.16	
LAND TAXES	\$0.92		\$0.92	
OTHER EXPENSES	\$43.93		\$44.05	
TOTAL CASH EXPENSES	\$195.39		\$400.86	
RETURN OVER CASH EXPENSES	(\$4.53)		\$183.88	
FIXED EXPENSES	\$41.40		\$62.38	
TOTAL EXPENSES	\$236.78		\$463.24	
NET FARM INCOME	(\$45.92)		\$121.50	
LABOR AND MANAGEMENT COSTS	\$27.02		\$62.86	
NET OPERATING PROFIT	(\$72.94)		\$58.64	
CAPITAL COSTS				
INTEREST ON OPERATING CAPITAL	\$4.67		\$10.94	
INTEREST ON EQUIPMENT INVESTMENT	\$15.56		\$21.16	
TOTAL CAPITAL COSTS	\$20.23		\$32.10	
RETURN TO LAND AND RISK	(\$93.17)		\$26.54	

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

GROSS RETURNS		
WHEAT	194 ACRES	
CROP		\$25,433
GRAZING		\$7,760
DIRECT PAYMENT		\$2,351
COUNTER CYCLICAL PAYMENT		\$0
CORN FOR GRAIN	306 ACRES	
CROP		\$160,111
GRAZING		\$3,060
DIRECT PAYMENT		\$15,759
COUNTER CYCLICAL PAYMENT		\$0
GROSS RETURN		\$214,475
CASH OPERATING EXPENSES		
SEED		\$13,690
FERTILIZER		\$53,221
CHEMICALS		\$16,359
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$4,690
FUEL-IRRIGATION		\$27,770
REPAIRS		\$9,084
CUSTOM CHARGES		\$13,192
LAND TAXES		\$459
OTHER EXPENSES		\$22,003
TOTAL CASH EXPENSES		\$160,568
RETURN OVER CASH EXPENSES		\$53,907
FIXED EXPENSES		\$27,120
TOTAL EXPENSES		\$187,688
NET FARM INCOME		\$26,788
LABOR AND MANAGEMENT COSTS		\$24,476
NET OPERATING PROFIT		\$2,312
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$4,254
INTEREST ON EQUIPMENT INVESTMENT		\$9,493
TOTAL CAPITAL COSTS		\$13,746
RETURN TO LAND AND RISK		(\$11,435)

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$500 /ACRE	(\$24,235)	0.45%
\$1,000 /ACRE	(\$37,035)	0.28%
\$1,500 /ACRE	(\$49,835)	0.20%
\$2,000 /ACRE	(\$62,635)	0.16%
\$2,500 /ACRE	(\$75,435)	0.13%

* 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)