

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... SOUTHERN QUAY COUNT Projected 2006.
FARM SIZE..... 1,000.00 ACRES
IRRIGATION TYPE..... SPRINKLER/DRYLAND
NUMBER OF CROPS..... 2

VERSION 1.0

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TABLE 1. Acreage Summary, Quay County,
Projected 2006.

BUDGET AREA.....	SOUTHERN QUAY COUNTY		
FARM SIZE.....	1,000 ACRES		
IRRIGATION TYPE.....	SPRINKLER/DRYLAND		
NUMBER OF CROPS.....	2		

ACREAGE SUMMARY:	WATER USE		
	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
WHEAT	607.75	0	0
ARP	0.00		
FLEX IN GRAIN SORGHUM	107.25	0	0
GRAIN SORGHUM	212.50	12	2,550
ARP	0.00		
FLEX IN GRAIN SORGHUM	37.50	12	450
ROADS, HOMESTEAD, FALLOW	35.00		
TOTAL	1,000.00		3,000

TABLE 2. Basic cost information for Southern Quay County,
Projected 2006.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$7.45
General & Irrigators	\$/hour	\$6.65
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.52
Phosphate (P205)	\$/pound	\$0.40
Seed:		
Wheat	\$/pound	\$0.28
Grain Sorghum	\$/pound	\$1.22
Energy Costs:		
Diesel fuel	\$/gallon	\$2.10
Gasoline	\$/gallon	\$2.00
Electricity (Farmers Elec Coop)	cents/KwHr	7.25
LP Gas	\$/gallon	\$2.00
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	8.00%
Land Interest Rate	percent	8.00%
Equipment Interest Rate	percent	8.00%
Real Interest Rate	percent	3.00%
Land Taxes		
Irrigated	\$96.00 /acre (full value)	\$0.78
Dryland	\$38.00 /acre (full value)	\$0.31
Personal Property Tax Rate	- NR - R	\$/ \$1,000 (Assessed Value) \$22.84
Supervision Factors		
Field Crop-Irrigation	\$/acre	\$1.00
Field Crop-Equipment & General	\$/acre	\$0.50
Management Rate	percent	7.00%

TABLE 3. Overhead cost information for Southern Quay County,
Projected 2006.

Item		
Electricity (Domestic & Shop)	\$212.00 per month	\$2,544
Telephone	\$106.00 per month	\$1,272
Accounting & Legal		\$1,558
Misc. Supplies & Hand Tools		\$2,337
Pickup and Auto		
miles	21,836 @ \$0.415 per mile	\$9,062
Insurance		
- general liability (non-employee)		\$1,675
- fire/theft		\$1,325
Property Taxes		
- non-planted land		\$0
- other than land & machinery		\$6,010
Building repairs and maintenance		\$1,272
Dues, fees, publications		\$382
Farmstead Equipment		\$159
Total		\$27,596
	Total per planted acre	\$28.60
	Total per dryland acre	\$15.45

TABLE 4 Pumping costs and data for irrigation wells, Southern Quay County
Projected 2006

WELL DATA		DEPTH CHARACTERISTICS	
DELIVER PER SPRINKLER	35	STATIC	200
		DRAW-DOWN	75
		TOTAL HEAD	275
		CHASING	400
GALLONS PER MINUTE (GPM)	350		
WORK HORSE POWER	28		
EFFICIENCY FACTOR:			
ELECTRICITY	0.540		
LP GAS	0.158		
DIESEL	0.150		
FUEL COST PER HOUR:			
ELECTRICITY	7.38	CENTS/KWHRS	
LP GAS	\$2.07	\$/GAL	
DIESEL	\$2.10	\$/GAL	
PUMPING COSTS			
ELECTRIC WELL:			
	\$2.83	COST PER HOUR	
	\$3.66	COST PER ACRE INCH	
LP GAS WELL:			
	\$10.07	COST PER HOUR	
	\$13.02	COST PER ACRE INCH	
DIESEL WELL:			
	\$6.61	COST PER HOUR	
	\$6.50	COST PER ACRE INCH	

TABLE 5 Equipment summary for a 1,000 acre dryland/irrigated-cropland farm with above average management, Southern Quay County
Projected 2006

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		TOTAL PER HR
				FUEL OIL LUBRICANT	REPAIR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES	
TRACTOR 126 HP	264	1	\$24,324	\$4,326	\$1,130	\$17.32	\$3.97	\$2,647	\$270	\$10.26
TRACTOR 126 HP	360	1	\$42,416	\$7,326	\$2,064	\$21.75	\$5.23	\$4,428	\$396	\$16.94
COMBINE 140 HP	142	1	\$24,324	\$2,464	\$665	\$17.32	\$3.97	\$2,247	\$270	\$20.51
GRAN HEAD 22 FT	142	1	\$3,600			\$0.15		\$601	\$21	\$15.14
TRUCK 2 TON	142	1	\$22,000			\$976	\$13.34	\$4,400	\$180	\$32.30
PLANTER 6 ROW	264	1	\$4,200			\$110		\$605	\$24	\$15.14
ROOFWEEDER 22 FT	162	1	\$625			\$125	\$0.76	\$83	\$5	\$6.05
SWEEPER 22 FT	126	1	\$4,200			\$876	\$5.39	\$463	\$63	\$4.89
CULTIVATOR 28 FT	85	1	\$3,500			\$346	\$3.37	\$495	\$28	\$6.17
DISC 18 FT OFFSET	79	1	\$7,000			\$731	\$9.30	\$1,000	\$61	\$13.50
CRUSHER/STUR 28 FT	75	1	\$5,000			\$155	\$2.24	\$1,100	\$45	\$10.70
LISTER 6 ROW	43	1	\$2,150			\$114	\$2.67	\$287	\$18	\$7.10
STURBLE MULCHER 28 FT	40	1	\$7,600			\$441	\$5.49	\$1,520	\$93	\$22.28
SPRAYER (MTS) 16 FT	21	1	\$1,400			\$14	\$0.67	\$187	\$11	\$8.24
PIVOT SPRINKLER (MOVEABLE)	5,543	1	\$17,200	\$0	\$0	\$0.00	\$0.00	\$2,300	\$41	\$6.44
ELECTRIC WELL	5,543	1	\$14,000	\$15,873	\$0	\$2.83	\$0.00	\$1,120	\$14	\$0.22
			\$164,330	\$32,790	\$7,470			\$50,551	\$1,698	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS LIFE	EQUP CODE	MAX HOURS	FUEL UNITS/HR	LUBE COEF	ACCUM HOURS	AGE	INTEREST EXPENSE
TRACTOR 126 HP	66185.00	24244.00	25.00	1.00	600.00	7.50	0.10	5400.31	19.00	2,647.40
TRACTOR 126 HP	66420.00	24415.00	15.00	1.00	600.00	9.42	0.10	3662.31	11.00	3,666.80
COMBINE 140 HP	66185.00	24244.00	25.00	1.00	600.00	7.50	0.10	2752.66	19.00	2,647.40
GRAN HEAD 22 FT	7350.00	2603.00	15.00	2.00	200.00			1448.19	13.00	363.40
TRUCK 2 TON	44000.00	20000.00	15.00	4.00	600.00	6.05	0.05	1848.19	13.00	1,762.30
PLANTER 6 ROW	8500.00	4250.00	10.00	8.00	300.00			830.97	15.00	52.80
ROOFWEEDER 22 FT	6250.00	425.00	15.00	3.00	300.00			2421.74	15.00	52.80
SWEEPER 22 FT	6700.00	4250.00	15.00	3.00	300.00			2013.12	15.00	346.00
CULTIVATOR 28 FT	6000.00	3000.00	15.00	3.00	300.00			1485.74	15.00	346.00
DISC 18 FT OFFSET	15000.00	7500.00	15.00	3.00	300.00			1257.52	15.00	603.00
CRUSHER/STUR 28 FT	11000.00	5500.00	15.00	3.00	300.00			848.00	15.00	440.00
LISTER 6 ROW	4300.00	2150.00	15.00	3.00	300.00			693.52	15.00	172.00
STURBLE MULCHER 28 FT	15200.00	7600.00	15.00	3.00	300.00			723.30	15.00	612.00
SPRAYER (MTS) 16 FT	2800.00	1400.00	15.00	8.00	150.00			321.53	15.00	112.00
PIVOT SPRINKLER (MOVEABLE)	34000.00	17000.00	15.00	0.00	8742.00			83148.43	15.00	1,380.00
ELECTRIC WELL	28000.00	14000.00	25.00	0.00	8742.00			83148.43	15.00	1,120.00

INTEREST PROVISION

WHEAT	GRAN SORGHUM
2.41	2.98
2.57	6.42
2.41	2.98
0.30	0.54
1.73	1.98
0.00	0.05
0.05	0.06
0.44	0.22
0.00	0.07
0.02	1.08
0.00	0.00
0.71	0.00
0.00	0.48
0.00	1.00
0.00	0.31
0.00	3.88
0.00	0.14
12.03	26.07

USAGE LIST

WHEAT	GRAN SORGHUM	
	PER ACRE	TOTALS
	—hours per acre—	
	0.32	0.80
	0.14	0.16
	0.14	0.30
	0.14	0.16
	0.14	0.16
	0.16	0.34
	0.16	0.34
	0.00	0.26
	0.00	0.22
	0.12	0.00
	0.00	0.12
	0.00	0.08
	0.00	0.06
	0.00	15.52
	0.00	15.52

WHEAT

MACHINE	POWER UNIT	ACRES	607.75		PUMP WATER:	
			TIMES OVER	RATE	TOTAL	CUSTOM
SWEEP (DX)	180 HP	2.00	0.08		0.14	
DISC (DX)	180 HP	2.00	0.08		0.08	
ROOFWEED (DX)	126 HP	2.00	0.08		0.16	
DRILL	126 HP	1.00	0.12		0.12	
COMBINE	22 FT	1.00	0.14		0.14	
HAUL	2 TON	1.00	0.14		0.14	

GRAN SORGHUM

MACHINE	POWER UNIT	ACRES	397.25		PUMP WATER:	
			TIMES OVER	RATE	TOTAL	CUSTOM
SWEEP	180 HP	1.00	0.06		0.06	
DISC (DX)	180 HP	2.00	0.11		0.22	
SPRAYER	180 HP	1.00	0.06		0.06	
LISTER	180 HP	1.00	0.12		0.12	
ROOFWEED & PLANTER	180 HP	1.00	0.18		0.18	
CULTIVATOR (DX)	126 HP	2.00	0.13		0.26	
IRRIGATE (10)		12.00	1.28		1.28	
COMBINE	22 FT	1.00	0.16		0.16	
HAUL	2 TON	1.00	0.16		0.16	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of Use	1	2	3	4	5	6	7	8	9
0	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
50	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
100	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
200	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
300	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
400	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
500	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
600	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
700	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
800	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
900	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
1200	0.00045	0.000145	0.000365	0.000295	0.000405	0.000485	0.000345	0.001135	0.000715
1400	0.00065	0.000170	0.000365	0.000225	0.000405	0.000515	0.000415	0.001385	0.000765
1600	0.00090	0.000170	0.000365	0.000220	0.000405	0.000515	0.000410	0.001380	0.000765
1800	0.00110	0.000170	0.000365	0.000220	0.000405	0.000515	0.000410	0.001380	0.000765
2000	0.00110	0.000065	0.000265	0.000265	0.000485	0.000555	0.000295	0.001235	0.000665
2500	0.00096								
3000	0.00070								
4000	0.00036								
5000	0.00112								
6000	0.00136								
7000	0.00148								
8000	0.00152								
9000	0.00176								
7000	0.00188								
8000	0.00204								

* Based on unpublished data of D. R. Hunt, Department of Agriculture Engineering, University of Illinois.

** Based on "Agricultural Machinery Data" in Agriculture Engineers Yearbook, 1983.

- Codes
- 1 tractors
 - 2 rotary hoes, double, moldboard plows, windrowers, pickups
 - 3 rotary hoes, disk, moldboard plows, chisels, field cultivators
 - 4 row cultivators, levelers, planters
 - 5 combines, grain, tillage, disc, drag, roller, water pump
 - 6 baler
 - 7 baler, grain, tillage, disc, drag, roller, water pump
 - 8 baler, grain, tillage, disc, drag, roller, water pump
 - 9 corn heads, forage equipment, rotary mowers, sick choppers, head engines, grain trucks
 - 0 rakes, cultivator mowers
 - 1 baler, grain, tillage, disc, drag, roller, water pump
 - 2 baler, grain, tillage, disc, drag, roller, water pump
 - 3 planters, drills, seeding equipment, mounted sprayers
 - 4 fertilizer distributing equipment

TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County, Projected 2006.
Planting dates: August 20 - September 1st
Harvesting dates: June 15 - July 1st

ITEM	PRICE	YIELD	BASE					TOTAL
GROSS RETURNS								
WHEAT	\$3.75	20.00 BUSHELS						\$75.00
DIRECT PAYMENT	\$0.00	20.00 BUSHELS	0.85					\$0.00
COUNTER CYCLICAL PAYMENT	\$0.00							\$0.00
GRAZING	\$5.00	1.00 ACRE						\$5.00
TOTAL								\$80.00
PURCHASED INPUTS								
	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED	\$0.28	25 LBS	\$7.00					\$7.00
CROP INSURANCE	\$0.08		\$0.08					\$0.08
SUBTOTAL			\$7.08					\$7.08
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP (2X)	185 HP	0.16 HR		\$1.19	\$3.48	\$1.79	\$3.81	\$10.27
STUBBLE MULCHER	185 HP	0.08 HR		\$0.60	\$1.74	\$1.22	\$3.30	\$6.85
RODWEED (2X)	126 HP	0.16 HR		\$1.19	\$2.77	\$0.76	\$1.73	\$6.45
DRILL	126 HP	0.12 HR		\$0.89	\$2.08	\$0.79	\$3.11	\$6.88
SUBTOTAL		0.52 HR		\$3.87	\$10.07	\$4.56	\$11.95	\$30.46
HARVEST OPERATIONS								
COMBINE	22 FT	0.14 HR		\$1.04	\$2.43	\$0.58	\$3.40	\$7.44
HAUL	2 TON	0.14 HR		\$1.04	\$1.87	\$0.86	\$4.51	\$8.28
SUBTOTAL		0.28 HR		\$2.09	\$4.29	\$1.44	\$7.90	\$15.72
OVERHEAD EXPENSES								
DOWNTIME		0.20 HR		\$1.49				\$1.49
EMPLOYEE BENEFITS				\$1.07				\$1.07
INSURANCE			\$0.12					\$0.12
LAND TAXES							\$0.31	\$0.31
SUPERVISION AND MANAGEMENT				\$6.60				\$6.60
OTHER EXPENSES			\$15.45					\$15.45
SUBTOTAL		0.20 HR	\$15.57	\$9.16			\$0.31	\$25.04
TOTAL OPERATING EXPENSES		1.00 HR	\$22.65	\$15.12	\$14.36	\$6.00	\$20.17	\$78.31
NET OPERATING PROFIT								\$1.69
INTEREST ON OPERATING CAPITAL		(\$7.68 @	8.00%)				\$0.61
INTEREST ON EQUIPMENT INVESTMENT								\$12.03
RETURN TO LAND AND RISK								(\$10.95)

BUDGET SUMMARY			
GROSS RETURN		\$80.00	
VARIABLE OPERATING EXPENSES	\$43.02		
RETURN OVER VARIABLE EXPENSES		\$36.98	(GROSS MARGIN)
FIXED EXPENSES	\$20.17		
NET FARM INCOME		\$16.82	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$15.12		
NET OPERATING PROFIT		\$1.69	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$12.65		
RETURN TO LAND AND RISK		(\$10.95)	

TABLE 7. Grain sorghum, sprinkler-irrigated, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County
 Projected 2006.
 Planting dates: June 15 - July 15
 Harvesting dates: September 20 - October 30

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
GRAIN SORGHUM	\$3.70	50.00 CWT		\$184.82
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
DIRECT PAYMENT	\$0.00	50.00 CWT	0.85	\$0.00
TOTAL				\$184.82

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.22	5 LBS	\$6.10		\$6.10
NITROGEN (N)	\$0.52	80 LBS	\$41.60		\$41.60
PHOSPHATE (P205)	\$0.40	40 LBS	\$16.00		\$16.00
HERBICIDE	\$16.99	1 ACRE	\$16.99		\$16.99
PUMP WATER		12 AC. IN.			
CROP INSURANCE	\$0.14		\$0.14		\$0.14
SUBTOTAL			\$80.83		\$80.83

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP	185 HP	0.08 HR		\$0.60	\$1.74	\$0.89	\$1.91	\$5.14
DISC (2X)	185 HP	0.22 HR		\$1.64	\$4.79	\$3.32	\$7.14	\$16.88
SPRAYER	126 HP	0.06 HR		\$0.45	\$1.04	\$0.28	\$1.17	\$2.93
LISTER	185 HP	0.12 HR		\$0.89	\$2.61	\$1.01	\$3.12	\$7.64
ROD WEED & PLANTER	185 HP	0.18 HR		\$1.34	\$3.92	\$1.55	\$5.98	\$12.79
CULTIVATOR (2X)	126 HP	0.26 HR		\$1.94	\$4.50	\$2.00	\$3.85	\$12.30
IRRIGATE (12X)		1.20 HR		\$7.98	\$43.87	\$0.00	\$10.29	\$62.14
SUBTOTAL		2.12 HR		\$14.83	\$62.47	\$9.05	\$33.46	\$119.82

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	22 FT	0.16		\$1.19	\$2.77	\$0.66	\$3.88	\$8.50
HAUL	2 TON	0.16		\$1.19	\$2.13	\$0.99	\$5.15	\$9.46
SUBTOTAL		0.32 HR		\$2.38	\$4.91	\$1.65	\$9.03	\$17.97

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.61 HR		\$4.54				\$4.54
EMPLOYEE BENEFITS			\$3.10				\$3.10
INSURANCE		\$0.34					\$0.34
LAND TAXES						\$0.78	\$0.78
SUPERVISION AND MANAGEMENT			\$13.94				\$13.94
OTHER EXPENSES		\$28.60					\$28.60
SUBTOTAL	0.61 HR	\$28.94	\$21.58			\$0.78	\$51.31

TOTAL OPERATING EXPENSES 2.73 HR \$109.77 \$38.80 \$67.37 \$10.70 \$43.28 \$269.92

NET OPERATING PROFIT (\$85.10)

INTEREST ON OPERATING CAPITAL (\$58.84 @ 8.00%) \$4.71
 INTEREST ON EQUIPMENT INVESTMENT \$26.07

RETURN TO LAND AND RISK (\$115.87)

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

GROSS RETURN		\$184.82	
VARIABLE OPERATING EXPENSES	\$187.84		
RETURN OVER VARIABLE EXPENSES		(\$3.02)	(GROSS MARGIN)
FIXED EXPENSES	\$43.28		
NET FARM INCOME		(\$46.30)	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$38.80		
NET OPERATING PROFIT		(\$85.10)	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$30.78		
RETURN TO LAND AND RISK		(\$115.87)	

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Projected 2006.

	WHEAT (Dryland)	GRAIN SORGHUM (Sprinkler)
	BU	CWT
PRIMARY YIELD	20.00	50.00
PRIMARY PRICE	\$3.75	\$3.70
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$5.00	\$0.00
GROSS RETURN	\$80.00	\$184.82
CASH OPERATING EXPENSES		
SEED	\$7.00	\$6.10
FERTILIZER		\$57.60
CHEMICALS		\$16.99
CROP INSURANCE	\$0.08	\$0.14
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$14.36	\$23.50
FUEL-IRRIGATION		\$43.87
REPAIRS	\$6.00	\$10.70
CUSTOM CHARGES		
LAND TAXES	\$0.31	\$0.78
OTHER EXPENSES	\$15.57	\$28.94
TOTAL CASH EXPENSES	\$43.33	\$188.62
RETURN OVER CASH EXPENSES	\$36.67	(\$3.80)
FIXED EXPENSES	\$19.86	\$42.50
TOTAL EXPENSES	\$63.18	\$231.12
NET FARM INCOME	\$16.82	(\$46.30)
LABOR AND MANAGEMENT COSTS	\$15.12	\$38.80
NET OPERATING PROFIT	\$1.69	(\$85.10)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.61	\$4.71
INTEREST ON EQUIPMENT INVESTMENT	\$12.03	\$26.07
TOTAL CAPITAL COSTS	\$12.65	\$30.78
RETURN TO LAND AND RISK	(\$10.95)	(\$115.87)

TABLE 9. Whole farm summary, Southern Quay County,
Projected 2006.

GROSS RETURNS		
WHEAT	607.75 ACRES	
CROP		\$45,581
GRAZING		\$3,039
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	357.25 ACRES	
CROP		\$66,027
COUNTER CYCLICAL PAYMENT		\$0
DIRECT PAYMENT		\$0
GROSS RETURN		<u>\$114,647</u>
CASH OPERATING EXPENSES		
SEED		\$6,433
FERTILIZER		\$20,578
CHEMICALS		\$6,068
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$17,126
FUEL-IRRIGATION		\$15,673
REPAIRS		\$7,470
CUSTOM CHARGES		\$0
LAND TAXES		\$469
OTHER EXPENSES		\$19,801
TOTAL CASH EXPENSES		<u>\$93,717</u>
RETURN OVER CASH EXPENSES		\$20,930
FIXED EXPENSES		\$27,249
TOTAL EXPENSES		\$120,966
NET FARM INCOME		(\$6,319)
LABOR AND MANAGEMENT COSTS		\$23,052
NET OPERATING PROFIT		(\$29,371)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,055
INTEREST ON EQUIPMENT INVESTMENT		\$16,626
TOTAL CAPITAL COSTS		<u>\$18,681</u>
RETURN TO LAND AND RISK		<u>(\$48,052)</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$150 /ACRE	(\$52,552)	-8.78%
\$300 /ACRE	(\$57,052)	-6.06%
\$450 /ACRE	(\$61,552)	-4.63%
\$600 /ACRE	(\$66,052)	-3.74%
\$750 /ACRE	(\$70,552)	-3.14%
\$900 /ACRE	(\$75,052)	-2.71%

* 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)