

MICROCOMPUTER CROP COST AND RETURN GENERATOR

BUDGET AREA..... SOUTHERN QUAY COUNTY, Projected 2011.
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 2011.

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

ACREAGE SUMMARY:	LAND USE (ACRES)	WATER USE	
		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 2011.

Item		
Labor Wage Rate:		
Equipment operators	\$/hour	\$8.55
General & Irrigators	\$/hour	\$7.25
Purchased Inputs:		
Fertilizer:		
Nitrogen (N)	\$/pound	\$0.71
Phosphate (P205)	\$/pound	\$0.65
Seed:		
Wheat	\$/pound	\$0.32
Grain Sorghum	\$/pound	\$1.78
Energy Costs:		
Diesel fuel	\$/gallon	\$2.95
Gasoline	\$/gallon	\$3.05
Electricity (Farmers Elec Coop)	cents/Kwhr	7.55
LP Gas	\$/gallon	\$2.55
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	7.00%
Land Interest Rate	percent	6.00%
Equipment Interest Rate	percent	7.00%
Real Interest Rate	percent	3.00%
Land Taxes		
Irrigated	\$96.00 /acre (full value)	\$0.80
Dryland	\$38.00 /acre (full value)	\$0.32
Personal Property Tax Rate	- NR - R	/\$1,000 (Assessed Value) \$25.05 \$18.64
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 2011.

Item		
Electricity (Domestic & Shop)	\$242.00 per month	\$2,904
Telephone	\$121.00 per month	\$1,452
Accounting & Legal		\$1,779
Misc. Supplies & Hand Tools		\$2,668
Pickup and Auto		
miles	24,926 @ \$0.500 per mile	\$12,463
Insurance		
- general liability (non-employee)		\$1,912
- fire/theft		\$1,513
Property Taxes		
- non-planted land		\$0
- other than land & machinery		\$6,010
Building repairs and maintenance		\$1,452
Dues, fees, publications		\$436
Farmstead Equipment		\$182
Total		\$32,769
	Total per planted acre	\$33.96
	Total per dryland acre	\$18.35

TABLE 4. Pumping costs and data for irrigation wells, Southern Oahu County, February 2011.

INPUT DATA		
DELIVERY PIP SPRINKLER	35	DEPTH CHARACTERISTICS STATIC 200 DRAIN DOWN 35 TOTAL HEAD 235
GALLONS PER MINUTE (GPM) WORK HORSEPOWER	350 28	CASING 400
EFFICIENCY FACTOR:		
ELECTRICITY	0.80	
LP GAS	0.154	
DIESEL	0.160	
FUEL COST PER HOUR:		
ELECTRICITY	7.55 CENTS/KWH	
LP GAS	\$2.35 GAL/GAL	
DIESEL	\$2.35 GAL/GAL	
PUMPING COSTS		
ELECTRIC WELL		
COST PER HOUR	\$2.94	
COST PER ACRE INCH	\$3.81	
LP GAS WELL		
COST PER HOUR	\$12.83	
COST PER ACRE INCH	\$16.80	
DIESEL WELL		
COST PER HOUR	\$9.27	
COST PER ACRE INCH	\$11.93	

TABLE 5. Equipment summary for a 1,000-acre dryland-to-irrigated farm with above average management, Southern Oahu County, February 2011.

EQUIPMENT ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	VARIABLE COSTS				FIXED COSTS		
				FUEL OIL CONSUMPTION	LUBRICANT	REPAIR	FUEL OIL PER HR	REPAIR PER HR	DEPRECIATION	TAXES
TRACTOR #4 HP	284	1	\$34,753	\$6,303	\$1,130	\$24.33	\$3.97	\$2,647	\$276	\$10.28
TRACTOR #4 HP	280	1	\$43,287	\$17,007	\$2,084	\$30.26	\$5.79	\$6,428	\$403	\$18.96
COMBINE #4 HP	142	1	\$34,753	\$3,462	\$465	\$24.33	\$3.97	\$2,647	\$276	\$20.05
GRANHEAD 22 FT	142	1	\$3,600		\$21		\$0.15	\$0.07	\$31	\$3.19
TRUCK 2 TON	142	1	\$23,000	\$2,866	\$910	\$16.74	\$6.44	\$4,800	\$192	\$33.69
PLANTER 8 ROW	64	1	\$4,500		\$10		\$0.07	\$0.03	\$25	\$3.17
ROWWEEDER 23 FT	162	1	\$625		\$125		\$0.78	\$83	\$5	\$6.05
SWEEPS 23 FT	126	1	\$4,500		\$975		\$6.20	\$0.03	\$26	\$4.00
DISC 18 FT OFFSET	93	1	\$3,000		\$348		\$3.72	\$400	\$25	\$4.08
CULTIVATOR 8 ROW	79	1	\$2,000		\$203		\$2.26	\$1,000	\$63	\$13.22
LISTER 28 FT	71	1	\$5,500		\$193		\$2.64	\$1,100	\$46	\$15.71
LISTER 6 ROW	43	1	\$2,150		\$247		\$2.87	\$16	\$7.11	
STUBBLE MULCHER 26 FT	49	1	\$7,800		\$461		\$6.49	\$1,020	\$64	\$22.28
SPRAYER (MTD) 16 FT	21	1	\$1,400		\$14		\$0.67	\$167	\$12	\$9.25
PIVOT SPRINKLER (MOVEABLE) 5.543	1	\$17,200		\$0	\$0	\$0.00	\$0.00	\$2,300	\$14	\$0.44
ELECTRIC WELL	5.543	1	\$14,000		\$16,315		\$0	\$1,120	\$17	\$2.27
TOTAL			\$207,088	\$48,373	\$7,516			\$25,751	\$1,744	

EQUIPMENT LIST

ITEM	NEW VALUE	USED VALUE	YEARS	EQUIP. COST	MAX. FUEL CONSUMPTION	LUBE COST PER HOUR	ACCUM. INTEREST	AGE	RESIDUAL VALUE	
TRACTOR #4 HP	\$34,753	\$4,753	25.00	1,000	800.00	7.50	0.10	\$108.82	16.00	2,316.48
TRACTOR #4 HP	\$43,287	\$4,287	25.00	1,000	800.00	9.42	0.10	\$362.31	11.00	3,374.70
COMBINE #4 HP	\$34,753	\$4,753	25.00	1,000	800.00	7.50	0.10	\$108.82	16.00	2,316.48
GRANHEAD 22 FT	\$3,600	\$360	10.00	2,200	300.00			13.00	283.00	
TRUCK 2 TON	\$23,000	\$2,000	10.00	8,000	800.00	6.05	0.05	\$149.19	13.00	2,975.00
PLANTER 8 ROW	\$4,500	\$450	10.00	8,000	100.00			13.00	297.50	
ROWWEEDER 23 FT	\$625	\$62.5	10.00	3,000				15.00	43.75	
SWEEPS 23 FT	\$4,500	\$450	10.00	3,000				2011.12	16.00	304.00
DISC 18 FT OFFSET	\$3,000	\$300	10.00	3,000				1486.16	16.00	210.00
CULTIVATOR 8 ROW	\$2,000	\$200	10.00	3,000				1297.52	16.00	325.00
LISTER 28 FT	\$5,500	\$550	10.00	8,000	100.00			949.09	13.00	385.00
LISTER 6 ROW	\$2,150	\$215	10.00	3,000				685.92	16.00	150.00
STUBBLE MULCHER 26 FT	\$7,800	\$780	10.00	3,000				729.90	15.00	358.00
SPRAYER (MTD) 16 FT	\$1,400	\$140	10.00	8,000	300.00			321.53	15.00	89.00
PIVOT SPRINKLER (MOVEABLE) 5.543	\$17,200	\$1,720	10.00	\$14,480				\$149.43	15.00	1,207.00
ELECTRIC WELL	\$14,000	\$1,400	25.00	0.00	\$742.00			\$149.43	15.00	980.00

USAGE LIST

ITEM	WHEAT	SORGHUM	TOTAL
TRACTOR #4 HP	0.28	0.32	0.60
TRACTOR #4 HP	0.24	0.60	0.84
COMBINE #4 HP	0.14	0.16	0.30
GRANHEAD 22 FT	0.14	0.16	0.30
TRUCK 2 TON	0.16	0.16	0.32
PLANTER 8 ROW	0.16	0.16	0.32
ROWWEEDER 23 FT	0.00	0.18	0.18
SWEEPS 23 FT	0.16	0.16	0.32
DISC 18 FT OFFSET	0.16	0.18	0.34
CULTIVATOR 8 ROW	0.00	0.28	0.28
LISTER 28 FT	0.00	0.28	0.28
LISTER 6 ROW	0.12	0.00	0.12
STUBBLE MULCHER 26 FT	0.08	0.12	0.20
SPRAYER (MTD) 16 FT	0.08	0.08	0.16
PIVOT SPRINKLER (MOVEABLE) 5.543	0.00	0.08	0.08
ELECTRIC WELL	0.00	15.52	15.52
	0.00	15.52	15.52

INTEREST PRECIPITATION

WHEAT	GRAIN SORGHUM
2.28	2.21
2.25	2.82
1.58	1.81
0.00	0.83
0.04	0.05
0.39	0.19
0.00	0.29
0.00	0.42
0.88	0.00
0.80	0.27
0.00	3.38
0.80	2.74
TOTAL	22.89

WHEAT ACRES 607.75 PUMP WATER

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		
			RATE	TOTAL	CUSTOM
SWEEP (CX)	185 HP	2.00	0.08	0.16	
SPRAYER	128 HP	1.00	0.08	0.08	
ROWWEED (CX)	128 HP	2.00	0.08	0.16	
DRILL	128 HP	1.00	0.12	0.12	

GRAIN SORGHUM ACRES 357.25 PUMP WATER 12.00

MACHINE	POWER UNIT	TIMES OVER	ACCOMPLISHMENT		
			RATE	TOTAL	CUSTOM
SWEEP (CX)	185 HP	1.00	0.08	0.08	
DISC (CX)	185 HP	2.00	0.11	0.22	
SPRAYER	128 HP	1.00	0.08	0.08	
LISTER	185 HP	1.00	0.12	0.12	
ROWWEED & PLANTER	185 HP	1.00	0.16	0.16	
CULTIVATOR (CX)	128 HP	2.00	0.13	0.26	
IRRIGATE (D)		12.00	1.28	15.82	

ANNUAL REPAIR COSTS AS A PERCENT OF NEW VALUE

Hours of use	PERCENT OF NEW VALUE								
	1	2	3	4	5	6	7	8	9
0	0.00000	0.00000	0.00020	0.00020	0.00060	0.00140	0.00340	0.00740	0.01300
50	0.00060	0.00020	0.00020	0.00020	0.00060	0.00140	0.00340	0.00740	0.01300
100	0.00060	0.00020	0.00050	0.00050	0.00140	0.00320	0.00700	0.01300	0.02000
200	0.00060	0.00030	0.00040	0.00040	0.00140	0.00300	0.00660	0.01100	0.01600
300	0.00060	0.00030	0.00030	0.00090	0.00200	0.00440	0.00900	0.01400	0.02000
400	0.00060	0.00030	0.00040	0.00040	0.00140	0.00300	0.00660	0.01100	0.01600
500	0.00060	0.00030	0.00040	0.00090	0.00200	0.00440	0.00900	0.01400	0.02000
600	0.00060	0.00030	0.00040	0.00120	0.00300	0.00660	0.01100	0.01600	0.02300
700	0.00060	0.00030	0.00040	0.00150	0.00380	0.00840	0.01400	0.02000	0.02600
800	0.00060	0.00030	0.00050	0.00150	0.00380	0.00840	0.01400	0.02000	0.02600
900	0.00060	0.00030	0.00050	0.00160	0.00420	0.00900	0.01600	0.02200	0.02800
1000	0.00060	0.00030	0.00050	0.00180	0.00460	0.00960	0.01600	0.02200	0.02800
1200	0.00045	0.00015	0.00030	0.00220	0.00480	0.01000	0.01800	0.02600	0.03400
1400	0.00045	0.00015	0.00030	0.00250	0.00540	0.01100	0.02000	0.02800	0.03600
1600	0.00045	0.00015	0.00030	0.00270	0.00580	0.01200	0.02200	0.03000	0.03800
1800	0.00045	0.00015	0.00028	0.00290	0.00620	0.01200	0.02400	0.03200	0.04000
1900	0.00015	0.00015	0.00028	0.00310	0.00660	0.01300	0.02600	0.03400	0.04200
2000	0.00015	0.00025	0.00280	0.00350	0.00750	0.01400	0.02800	0.03600	0.04400
3000	0.00010	0.00025	0.00280	0.00350	0.00850	0.01500	0.03000	0.03800	0.04600
4000	0.00005	0.00025	0.00280	0.00350	0.00950	0.01600	0.03200	0.04000	0.04800
5000	0.00005	0.00025	0.00280	0.00350	0.01050	0.01700	0.03400	0.04200	0.05000
6000	0.00010	0.00025	0.00280	0.00350	0.01150	0.01800	0.03600	0.04400	0.05200
7000	0.00010	0.00025	0.00280	0.00350	0.01250	0.01900	0.03800	0.04600	0.05400
8000	0.00010	0.00025	0.00280	0.00350	0.01350	0.02000	0.04000	0.04800	0.05600

* Based on unpublished data of D. E. Hall, Department of Agricultural Engineering, University of Illinois.

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

- Codes
- 1 Tractor
 - 2 baler, combine, forage harrow, windrower, chaffer
 - 3 rotary hoe, disk, moldboard plow, chisel, field cultivator, row/cultivar, leaf chopper
 - 4 harrow, weeder, flake, rock, back drag, roller, water furrow, bed shaper
 - 5 baler/straw, cotton picker, cotton stripper, corn picker, corn head, forage equipment, mow/receiver, walk chopper, feed wagon, farm truck
 - 6 water, variable motor
 - 7 baler w/straw, mowing stricker
 - 8 planter, drill, seeding equipment, mounted sprayer
 - 9 fertilizer distributor 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 2011.
Planting dates: August 20 - September 15
Harvesting dates: June 15 - July 10

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
WHEAT	\$6.50	20.00 BUSHELS		\$130.00
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				\$135.00

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$0.32	25 LBS	\$8.00		\$8.00
CROP INSURANCE	\$0.08		\$0.08		\$0.08
SUBTOTAL			\$8.08		\$8.08

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP (2X)	185 HP	0.16 HR		\$1.37	\$4.89	\$1.79	\$3.82	\$11.86
STUBBLE MULCHER	185 HP	0.08 HR		\$0.68	\$2.44	\$1.22	\$3.30	\$7.65
RODWEEED (2X)	126 HP	0.16 HR		\$1.37	\$3.89	\$0.76	\$1.73	\$7.75
DRILL	126 HP	0.12 HR		\$1.03	\$2.92	\$0.79	\$3.12	\$7.86
SUBTOTAL		0.52 HR		\$4.45	\$14.15	\$4.56	\$11.97	\$35.13

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	22 FT	0.14 HR		\$1.20	\$3.41	\$0.58	\$3.40	\$8.58
HAUL	2 TON	0.14 HR		\$1.20	\$2.62	\$0.90	\$4.72	\$9.44
SUBTOTAL		0.28 HR		\$2.39	\$6.03	\$1.48	\$8.12	\$18.02

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.20 HR		\$1.71				\$1.71
EMPLOYEE BENEFITS			\$1.23				\$1.23
INSURANCE		\$0.14					\$0.14
LAND TAXES						\$0.32	\$0.32
SUPERVISION AND MANAGEMENT			\$10.45				\$10.45
OTHER EXPENSES		\$18.35					\$18.35
SUBTOTAL	0.20 HR	\$18.48	\$13.39			\$0.32	\$32.19

TOTAL OPERATING EXPENSES	1.00 HR	\$26.56	\$20.23	\$20.18	\$6.04	\$20.40	\$93.42
NET OPERATING PROFIT							\$41.58
INTEREST ON OPERATING CAPITAL	(\$9.34	@	7.00%)		\$0.65
INTEREST ON EQUIPMENT INVESTMENT							\$10.60
RETURN TO LAND AND RISK							\$30.33

BUDGET SUMMARY			
GROSS RETURN		\$135.00	
VARIABLE OPERATING EXPENSES	\$52.78		
RETURN OVER VARIABLE EXPENSES		\$82.22	(GROSS MARGIN)
FIXED EXPENSES	\$20.40		
NET FARM INCOME		\$61.81	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$20.23		
NET OPERATING PROFIT		\$41.58	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$11.25		
RETURN TO LAND AND RISK		\$30.33	

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 2011.
 Planting dates: June 15 - July 15
 Harvesting dates: September 20 - October 30

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
GRAIN SORGHUM	\$8.63	50.00 CWT		\$431.25
COUNTER CYCLICAL PAYMENT	\$0.00	0.00 CWT		\$0.00
DIRECT PAYMENT	\$0.00	50.00 CWT	0.85	\$0.00
TOTAL				\$431.25

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	FIXED COST	TOTAL
SEED	\$1.78	5 LBS	\$8.90		\$8.90
NITROGEN (N)	\$0.71	80 LBS	\$56.80		\$56.80
PHOSPHATE (P205)	\$0.65	40 LBS	\$26.00		\$26.00
HERBICIDE	\$16.99	1 ACRE	\$16.99		\$16.99
PUMP WATER		12 AC. IN.			
CROP INSURANCE	\$0.14		\$0.14		\$0.14
SUBTOTAL			\$108.83		\$108.83

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP	185 HP	0.08 HR		\$0.68	\$2.44	\$0.89	\$1.91	\$5.93
DISC (2X)	185 HP	0.22 HR		\$1.88	\$6.72	\$3.32	\$7.15	\$19.07
SPRAYER	126 HP	0.06 HR		\$0.51	\$1.46	\$0.28	\$1.17	\$3.42
LISTER	185 HP	0.12 HR		\$1.03	\$3.67	\$1.01	\$3.13	\$8.84
ROD WEED & PLANTER	185 HP	0.18 HR		\$1.54	\$5.50	\$1.55	\$5.99	\$14.58
CULTIVATOR (2X)	126 HP	0.26 HR		\$2.22	\$6.33	\$2.00	\$3.86	\$14.41
IRRIGATE (12X)		1.20 HR		\$8.70	\$45.67	\$0.00	\$10.30	\$64.67
SUBTOTAL		2.12 HR		\$16.57	\$71.79	\$9.05	\$33.51	\$130.92

HARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
COMBINE	22 FT	0.16		\$1.37	\$3.89	\$0.66	\$3.89	\$9.81
HAUL	2 TON	0.16		\$1.37	\$3.00	\$1.03	\$5.39	\$10.79
SUBTOTAL		0.32 HR		\$2.74	\$6.89	\$1.69	\$9.28	\$20.60

OVERHEAD EXPENSES	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
DOWNTIME	0.61 HR		\$5.22				\$5.22
EMPLOYEE BENEFITS			\$3.47				\$3.47
INSURANCE		\$0.39					\$0.39
LAND TAXES						\$0.80	\$0.80
SUPERVISION AND MANAGEMENT			\$31.19				\$31.19
OTHER EXPENSES		\$33.96					\$33.96
SUBTOTAL	0.61 HR	\$34.34	\$39.88			\$0.80	\$75.02

TOTAL OPERATING EXPENSES	2.73 HR	\$143.17	\$59.18	\$78.68	\$10.74	\$43.59	\$335.37
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NET OPERATING PROFIT \$95.88

INTEREST ON OPERATING CAPITAL (\$75.34 @ 7.00%) \$5.27
 INTEREST ON EQUIPMENT INVESTMENT \$22.89

RETURN TO LAND AND RISK \$67.72

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

BUDGET SUMMARY

GROSS RETURN		\$431.25	
VARIABLE OPERATING EXPENSES	\$232.60		
RETURN OVER VARIABLE EXPENSES	\$198.65		(GROSS MARGIN)
FIXED EXPENSES	\$43.59		
NET FARM INCOME	\$155.06		(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$59.18		
NET OPERATING PROFIT	\$95.88		(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$28.16		
RETURN TO LAND AND RISK	\$67.72		

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Projected 2011.

	WHEAT (Dryland)	GRAIN SORGHUM (Sprinkler)
	BU	CWT
PRIMARY YIELD	20.00	50.00
PRIMARY PRICE	\$6.50	\$8.63
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$5.00	\$0.00
GROSS RETURN	\$135.00	\$431.25
CASH OPERATING EXPENSES		
SEED	\$8.00	\$8.90
FERTILIZER		\$82.80
CHEMICALS		\$16.99
CROP INSURANCE	\$0.08	\$0.14
OTHER PURCHASED INPUTS		
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$20.18	\$33.01
FUEL-IRRIGATION		\$45.67
REPAIRS	\$6.04	\$10.74
CUSTOM CHARGES		
LAND TAXES	\$0.32	\$0.80
OTHER EXPENSES	\$18.48	\$34.34
TOTAL CASH EXPENSES	\$53.10	\$233.40
RETURN OVER CASH EXPENSES	\$81.90	\$197.85
FIXED EXPENSES	\$20.09	\$42.79
TOTAL EXPENSES	\$73.19	\$276.19
NET FARM INCOME	\$61.81	\$155.06
LABOR AND MANAGEMENT COSTS	\$20.23	\$59.18
NET OPERATING PROFIT	\$41.58	\$95.88
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.65	\$5.27
INTEREST ON EQUIPMENT INVESTMENT	\$10.60	\$22.89
TOTAL CAPITAL COSTS	\$11.25	\$28.16
RETURN TO LAND AND RISK	\$30.33	\$67.72

TABLE 9. Whole farm summary, Southern Quay County,
Projected 2011.

GROSS RETURNS		
WHEAT	607.75 ACRES	
CROP		\$79,008
GRAZING		\$3,039
DIRECT PAYMENT		\$0
COUNTER CYCLICAL PAYMENT		\$0
GRAIN SORGHUM	357.25 ACRES	
CROP		\$154,064
COUNTER CYCLICAL PAYMENT		\$0
DIRECT PAYMENT		\$0
GROSS RETURN		<u>\$236,110</u>
CASH OPERATING EXPENSES		
SEED		\$8,042
FERTILIZER		\$29,580
CHEMICALS		\$6,068
CROP INSURANCE		\$100
OTHER PURCHASED INPUTS		\$0
CANAL WATER		\$0
FUEL, OIL & LUBRICANTS-EQUIPMENT		\$24,058
FUEL-IRRIGATION		\$16,315
REPAIRS		\$7,510
CUSTOM CHARGES		\$0
LAND TAXES		\$479
OTHER EXPENSES		\$23,502
TOTAL CASH EXPENSES		<u>\$115,654</u>
RETURN OVER CASH EXPENSES		\$120,457
FIXED EXPENSES		\$27,495
TOTAL EXPENSES		\$143,148
NET FARM INCOME		\$92,962
LABOR AND MANAGEMENT COSTS		\$33,437
NET OPERATING PROFIT		\$59,525
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL		\$2,282
INTEREST ON EQUIPMENT INVESTMENT		\$14,618
TOTAL CAPITAL COSTS		<u>\$16,900</u>
RETURN TO LAND AND RISK		<u>\$42,625</u>

LAND VALUE	RETURN TO RISK*	RETURN ON INVESTMENT**
\$150 /ACRE	\$38,125	16.67%
\$300 /ACRE	\$33,625	11.74%
\$450 /ACRE	\$29,125	9.06%
\$600 /ACRE	\$24,625	7.38%
\$750 /ACRE	\$20,125	6.22%
\$900 /ACRE	\$15,625	5.38%

* 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)