MICROCOMPUTER CROP COST AND RETURN GENERATOR

VERSION 1.0

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- * YOU MAY ENTER DATA IN ANY INPUT TABLE WITH HIGHLIGHTED CELLS OR YOU MAY STRIKE [ENTER] AND RETURN TO THE MENU
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		WATER	WATER USE			
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.			
WHEAT	607.75	0	0			
ARP FLEX IN GRAIN SORGHUM	0.00 107.25	0	0			
GRAIN SORGHUM ARP	212.50 0.00	12	2,550			
FLEX IN GRAIN SORGHUM ROADS, HOMESTEAD,	37.50	12	450			
FALLOW	35.00					
TOTAL	1,000.00	·	3,000			

TABLE 2. Basic cost information for Southern Quay County,

TABLE 2.	Basic cost information fo Projected 2018	r Southern Qu	ay County,			
It	em					
Labor Wage	e Rate:					
	nt operators		\$/hour		\$8.55	
General	& Irrigators		\$/hour		\$7.50	
Purchased Fertilizer:						
	Nitrogen (N)		\$/pound		\$0.31	
0 1	Phosphate (P205)		\$/pound		\$0.24	
Seed:	Wheat		\$/pound		\$0.44	
	Grain Sorghum		\$/pound		\$1.32	
	Orani Corginani		фироапа		ψ1.0 <u>2</u>	
Energy Cos	ets:					
Diesel fu			\$/gallon		\$2.70	
Gasoline			\$/gallon	\$2.40		
	(Farmers Elec Coop)		cents/KwHi	•	8.27	
LP Gas			\$/gallon		\$2.75	
Employee L	iability Insurance		\$/\$1,000 w	ages	\$20.00	
Employee E	Benefits		percent/wa	ges	18.00%	
Labor Dowr	ntime		percent		25.00%	
Financial Ra	ates:					
Operating	Capital Interest Rate		percent		5.50%	
Land Inter	est Rate		percent		5.00%	
	t Interest Rate		percent		5.50%	
Real Intere	est Rate		percent		3.00%	
Land Taxes	;					
Irrigated			/acre (full v		\$0.82	
Dryland		\$38.00	/acre (full v	alue)	\$0.33	
Personal Pr	roperty Tax Rate	- NR	\$/\$1,000	(Assessed	\$25.73	
		- R		Value)	\$20.14	
Supervision	Factors					
	p-Irrigation		\$/acre		\$1.00	
Field Cro	p-Equipment & General		\$/acre		\$0.50	
Manageme	nt Rate		percent		7.00%	

TABLE 3. Overhead cost information for Southern Quay County, Projected 2018

Item					
Electricity (Domestic & S	Shop)		\$254.00	per month	\$3,048
Telephone			\$127.00	per month	\$1,524
Accounting & Legal					\$1,867
Misc. Supplies & Hand	Γools				\$2,800
Pickup and Auto					
miles	26,162	@	\$0.500 per mile		\$13,081
Insurance - general liability (non fire/theft Property Taxes - non-planted land - other than land & ma Building repairs and ma Dues, fees, publications Farmstead Equipment	chinery intenance				\$2,007 \$1,588 \$0 \$6,010 \$1,524 \$457 \$191
				Total	\$34,096
			Total per planted acre		\$35.33 \$19.09
			Total per dryland acre		\$19.09

TABLE 4. Pumping costs at Projected 2018. INPUT DATA DELIVERY PSI: SPRINKLER	nd data for imig			ARACTERIST STATIC DRAW DOV TOTAL HEA	ICS:		200	_				
GALLONS PER MINUTE (GF WORK HORSEPOWER	-10)	350 28		TOTAL HEA	D		35 235 400					
EFFICIENCY FACTOR:												
LP GAS DIESEL		0.540 0.154 0.160										
FUEL COST PER HOUR: ELECTRICITY LP GAS DIESEL PUMPING COSTS		8.27 \$2.75 \$2.70	CENTSKW SIGAL SIGAL	with								
ELECTRIC WELL: COST PER HOU COST PER ACRE	R EINCH		\$3.22 \$4.16									
LP GAS WELL: COST PER HOU	R		\$13.84 \$17.89									
DIESEL WELL: COST PER HOU COST PER ACRE	R E INCH		\$8.49 \$10.98									
TABLE 5. Equipment summ		0 acre dryland/s	aprinkler-iniga	ted farm with a	above averag	e manageme	s, Southern C	Quay County,				
Projected 2018 EQUIPMENT		ANNIAI					BLE COSTS		_	 	D COSTS	
TRACTOR ##		ANNUAL HOURS OF USE 284	NUMBER	TOTAL VALUE \$33,917	FUEL, OIL LUBRICAN \$6,3		R FUEL, PER I	27 \$3.0	,	\$2,647	TAXES \$284	TOTAL PER HR \$10.30
TRACTOR ## COMBINE ## GRAIN HEAD 22 TRUCK 2 PLANTER 6 RODWEEDER 23	HP HP FT TON ROW FT FT	360 142 142 142	1	\$43,057 \$33,917 \$3,600 \$23,000 \$4,250 \$625	\$10,0 \$3,1 \$2,4	74 \$2,0 68 \$5	37 \$27 65 \$22 21 16 \$17	7.97 \$5.6 1.27 \$3.9 \$0.1		\$6,284 \$2,647 \$501 \$4,600 \$850 \$83 \$580	\$404 \$284 \$32 \$197 \$36 \$5 \$37	\$18.57 \$20.61 \$3.75 \$33.73
PLANTER 6 RODWEEDER 23 SWEEPS 23 CULTIVATOR 6	ROW FT FT	360 142 142 142 64 162 126 93 79 73	1							\$850 \$83 \$580	\$36 \$5 \$37	\$18.57 \$20.61 \$3.75 \$33.73 \$13.79 \$0.55 \$4.91 \$4.58 \$13.54
DISC 18	ROW FT OFFSET FT ROW	79 73 43		\$3,000 \$7,500 \$5,500 \$2,150		\$1	46 31 93 14 61	\$3.7 \$9.3 \$2.6 \$2.6 \$9.4 \$0.6		\$1,000 \$1,000 \$1,100 \$1,100 \$287 \$1,020 \$187	\$26 \$64 \$47 \$18 \$66 \$12	
CRUSTBUSTER 28 LISTER 28 STUBBLE MULCHER 25 SPRAYER (MTD) 16 PIVOT SPRINKLER ELECTRIC WELL	ROW FT FT (MOVEABLE	43 49 21 5,543 5,543	1	\$2,150 \$7,650 \$1,400 \$17,250 \$14,000	\$17,8		14	\$0.6 0.00 \$0.0 1.22 \$0.0		\$187 \$2,300 \$1,120	\$12 \$148 \$120	\$7.12 \$22.33 \$9.27 \$0.44 \$0.22
				\$205,165	\$39,8	73 \$7,4	63			\$25,607	\$1,782	
			EQUIPMEN									
TRACTOR ##	HP	NEW VALUE 66185.00	33916.50	LIFE 25.00	1	.00 800	.00	7.50 0.1	0 5120.82	18.00	NTEREST EXPENSE 1,820.09	
TRACTOR ## COMBINE ## GRAIN HEAD 22 TRUCK 2	HP HP FT TON ROW FT FT ROW FT OFFSET FT ROW FT	94265.00 66185.00 7520.00 46000.00	43056.50 33916.50 3600.00 23000.00	15.00 25.00 15.00 10.00	1	.00 800 .00 800 .00 300 .00 800 .00 100	00	9.42 0.1 7.50 0.1 6.05 0.0	0 2560.41	11.00 18.00 13.00 13.00	2,592.29 1,820.09 206.80 1,265.00	
PLANTER 6 RODWEEDER 23 SWEEPS 23 CHITINATOR 6	ROW FT FT ROW	8500.00 1250.00 8700.00	4250.00 625.00 4350.00		3	.00 300 .00 800 .00 100 .00 300 .00 300 .00 300 .00 300 .00 300	1.00		1849.19 5 1849.19 835.97 2423.18 2013.12	13.00	233.75	
COMBINE ## GRAIN HEAD 22 TRUCK 2 TRUCK 2 TRUCK 2 PLANTER 6 ROOWEEDER 23 SWEEPS 23 CULTIWATOR 6 DISC 18 CRUSTBUSTER 28 LISTER 28 LISTER 6 STUBBLE MULCHER 6 STUBBLE MULCHER 6	FT OFFSET FT ROW	85185.00 7520.00 46000.00 8500.00 1250.00 8700.00 6000.00 15000.00 4300.00	625.00 4350.00 3000.00 7500.00 5500.00 2150.00	15.00 15.00 15.00 15.00 15.00 10.00	3 8 3	.00 300 .00 300 .00 300 .00 300 .00 300 .00 300	100		2013.12 1486.16 1257.52 948.03 685.92 729.30	15.00 16.00 16.00 16.00 13.00 16.00 15.00	34.38 239.25 165.00 412.50 302.50 118.25 420.75	
SPRAYER (MTD) 16 PIVOT SPRINKLER ELECTRIC WELL	FT (MOVEABLE	2800.00 2800.00 34500.00 28000.00	1400.00 17250.00 14000.00	15.00 15.00 15.00 25.00	8	.00 300 .00 150 .00 8742 .00 8742	00.00		729.30 321.53 83149.43 83149.43	15.00 15.00 15.00	77.00 948.75 770.00	
-												
USAGE LIST GRAIN P WHEAT SORGHUM	ER ACRE TOTALS											
hours per acre 0.28 0.32 0.24 0.80 0.14 0.16	0.60											
0.14 0.16 0.14 0.16 0.14 0.16	0.30 0.30 0.30											
0.14 0.16 0.14 0.18 0.00 0.18 0.16 0.18 0.16 0.08 0.00 0.26 0.00 0.22 0.00 0.22 0.00 0.12	0.18 0.34 0.24 0.26											
0.08 0.00	0.18 0.34 0.24 0.26 0.22 0.12 0.12 0.08											
0.00 0.06 0.00 15.52 0.00 15.52	0.06 15.52 15.52											
INTEREST PRORATION												
GRAIN WHEAT SORGHUM	_											
-dollars per acre- 1.79 2.05 1.73 4.32 1.79 2.05 0.20 0.23 1.25 1.42 0.00 0.85												
1.73 4.32 1.79 2.05 0.20 0.23 1.25 1.42 0.00 0.85 0.03 0.04												
0.30 0.15 0.00 0.46 0.00 1.15												
0.50 0.00 0.00 0.33 0.69 0.00 0.00 0.22												
0.69 0.00 0.00 0.22 0.00 2.86 0.00 2.16 8.29 17.89	_											
WHEAT	_	ACRES:	607.75	PUMP W	ATER:							
MACHINE		POWER UNIT	TIMES OVER	ACCOMPLIS RATE	HMENT	сиѕтом						
SWEEP (2X) STUBBLE MULCHER		185 HP 185 HP 126 HP	2.00	0.08	0.16							
RODWEED (2X) DRILL		126 HP 126 HP	1.00	0.08 0.12	0.16 0.12							
COMBINE HAUL		22 FT 2 TON	1.00	0.14 0.14	0.14 0.14							
GRAIN SORGHUM		ACRES:	357.25	PUMP W	ATER:	12.00						
MACHINE		POWER UNIT	TIMES	ACCOMPLIS RATE		CUSTOM						
SWEEP DISC (2X)		185 HP 185 HP	0VER 1.00 2.00	0.08	0.08	CUSTOM						
SPRAYER LISTER ROD WEED & PLANTE	R	126 HP 185 HP 185 HP 126 HP	1.00 1.00 1.00 2.00	0.08 0.12 0.18 0.13	0.06 0.12 0.18 0.26							
CULTIVATOR (2X) IRRIGATE (12)			2.00 12.00	0.13 1.29	0.26 15.52							
COMBINE HAUL		22 FT 2 TON	1.00	0.16	0.16							
				w.10	J.16							
		ANNUAL REP	AIR COSTS	AS A PERCE	NT OF NEW	VALUE						
Hours of Use 1	2		4	5	6	7	8					
0 0.000080 50 0.000080 100 0.000080	0.000020 0.000020 0.000020	0.000620 0.000620 0.000500	0.000020 0.000020 0.000020	0.000080 0.000080 0.000140	0.000140 0.000140 0.000220	0.000040 0.000040 0.000100	0.000240 0.000240 0.000380	0.000200				
200 0.000030 300 0.000030 400 0.000030 500 0.000030	0.000030 0.000050 0.000060 0.000070	0.000430 0.000390 0.000370 0.000360	0.000040 0.000060 0.000090 0.000100	0.000180 0.000230 0.000260 0.000280	0.000260 0.000310 0.000340 0.000370	0.000110 0.000140 0.000150 0.000170	0.000510 0.000630 0.000710 0.000800	0.000260 0.000400 0.000450 0.000630				
500 0.000030 600 0.000030 700 0.000030 800 0.000030 900 0.000030 1000 0.000030	0.000030 0.000080 0.000070 0.000070 0.000100 0.000110 0.000120	0.000430 0.000370 0.000370 0.000360 0.000340 0.000320 0.000320	0.000040 0.000000 0.000100 0.000120 0.000130 0.000150 0.000160	0.000180 0.000290 0.000280 0.000310 0.000350 0.000350 0.000380	0.000280 0.000340 0.000370 0.000390 0.000410 0.000480 0.000480	0.000110 0.000150 0.000170 0.000190 0.000200 0.000210 0.000230	0.000510 0.000510 0.000500 0.000500 0.000910 0.000980 0.001020	0.000530 0.000560 0.000590 0.000600 0.000630				
1000 0.000030 1200 0.000045 1400 0.000045 1500 0.000150	0.000130 0.000145 0.000170 0.000170	0.000310 0.000305 0.000300 0.000300	0.000180 0.000205 0.000230 0.000230	0.000380 0.000405 0.000435 0.000435	0.000480 0.000480 0.000510 0.000510	0.000230 0.000245 0.000410 0.000410	0.001070 0.001135 0.001260 0.001260	0.000630 0.000710 0.000765 0.000765				
1600 0.000150 1800 0.000075	0.000170 0.000190 0.000170 0.000265	0.000300 0.000285 0.000285 0.000280	0.000230 0.000255 0.000285 0.000305	0.000485 0.000485 0.000505	0.000510 0.000525 0.000550 0.000565	0.000410 0.000135 0.000295 0.000310	0.001260	0.000765				
2000 0.000110 2500 0.000056 3000 0.000070 3500 0.000082 4000 0.000086												
3500 0.00082 4000 0.00096 4500 0.000108 5000 0.000122 5500 0.000138 6000 0.000148												
6000 0.000148 6500 0.000162 7000 0.000176 7500 0.000188												
8000 0.000204												
		oublished data	of D. R. Hurt, Iniversity of II		rt Agricultural							
	Based on un			Agricultural								
Codea	Based on "A	gricultural Mach Engineers Yea	inery Data* in arbook, 1983.									
Codea	Based on "A	gricultural Mach Engineers Yea	inery Data* in arbook, 1983.		ps dors							
Codea	Based on "A	gricultural Mach Engineers Yea	inery Data* in arbook, 1983.		ps dors mow,							
Codea	Based on "A	gricultural Mach Engineers Yea	inery Data* in arbook, 1983.		ps dors now, sta ppers,							
Codes 1 1 3 3 4 5 6 6 7	Based on "A tractors balers, comb rotery hoe, d row cultivation harcows, was bed shaper balewagons, com heads, t feed wagons rakers, cultivation baler w engi		ervesters, wind plows, chise o buck, drig, r , cotton strippe int, rotary move eader	drowers, picku ils, field cultiva roller, water fu ers, com pick wers, stalk cho	pa docs mos, ma ppers,							

TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County, Projected 2018

Planting dates: August 20 - September 15

Harvesting dates: June 15 - July 10

ITEM	PRICE		YIEL	D	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT	\$4.40 \$0.00 \$0.00			BUSHELS BUSHELS						\$88.00 \$0.00 \$0.00
GRAZING	\$5.00		1.00	ACRE					_	\$5.00
TOTAL										\$93.00
PURCHASED INPUTS	PRICE		QUANT	ΓΙΤΥ	PURCHASED INPUTS				FIXED COST	TOTAL
SEED CROP INSURANCE SUBTOTAL	\$0.44 \$0.08		25	LBS .	\$11.00 \$0.08 \$11.08				_	\$11.00 \$0.08 \$11.08
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLIS RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
					0.10					
SWEEP (2X) STUBBLE MULCHER	185 HP 185 HP		0.16 0.08			\$1.37 \$0.68	\$4.47 \$2.24	\$1.77 \$1.21	\$3.76 \$3.27	\$11.37 \$7.40
RODWEED (2X)	126 HP		0.16			\$1.37	\$3.56	\$0.76	\$1.74	\$7.43
DRILL	126 HP		0.12			\$1.03	\$2.67	\$0.79	\$3.12	\$7.62
SUBTOTAL		-	0.52	HR		\$4.45	\$12.95	\$4.53	\$11.89	\$33.81
HARVEST OPERATIONS										
COMBINE	22 FT		0.14	HR		\$1.20	\$3.12	\$0.58	\$3.41	\$8.30
HAUL	2 TON		0.14			\$1.20	\$2.40	\$0.90	\$4.72	\$9.22
SUBTOTAL		=	0.28	HR		\$2.39	\$5.52	\$1.48	\$8.13	\$17.52
OVERHEAD EXPENSES										
DOWNTIME			0.20	HR		\$1.71				\$1.71
EMPLOYEE BENEFITS						\$1.23				\$1.23
INSURANCE					\$0.14				00.00	\$0.14
LAND TAXES SUPERVISION AND MANAGEMENT						\$7.51			\$0.33	\$0.33 \$7.51
OTHER EXPENSES					\$19.09	Ψ1.51				\$19.09
SUBTOTAL		-	0.20	ШВ	\$19.22	\$10.45			\$0.33	\$30.00
		-					C40.47	ФО 04		
TOTAL OPERATING EXPENSES NET OPERATING PROFIT			1.00	пк	\$30.31	\$17.29	\$18.47	\$6.01	\$20.35	\$92.42 \$0.58
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(\$10.49	@	5.50%)				\$0.58 \$8.29
RETURN TO LAND AND RISK										(\$8.29)
		BUDGET S	SUMMARY							
GROSS RETURN			\$93.00							
VARIABLE OPERATING EXPENSES		\$54.79	#20.24	(CDOSS	MARCINI)					
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$20.35	\$38.21	(GRUSS	MARGIN)					
NET FARM INCOME			\$17.87	(RETUR	N TO CAPITAL, L	ABOR, LAND	0 & RISK)			
LABOR AND MANAGEMENT COST		\$17.29	¢0.50	(DETUS)	N TO CARITAL !	AND & DICK	١			
NET OPERATING PROFIT CAPITAL COSTS		\$8.86	\$0.58	(KETUR	N TO CAPITAL, L	AND & KISK)			
RETURN TO LAND AND RISK			(\$8.29)							

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 2018

Planting dates: June 15 - July 15

Harvesting dates: September 20 - October 30

Harvesting dates: September 2	.0 - October 30									
ITEM	PRICE		YIEL	.D	BASE					TOTAL
GROSS RETURNS GRAIN SORGHUM	\$6.08		50.00	CWT						\$303.93
COUNTER CYCLICAL PAYMENT	\$0.00			CWT						\$0.00
DIRECT PAYMENT	\$0.00		50.00		0.85					\$0.00
TOTAL									-	\$303.93
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUAN	TITY	INPUTS				COST	TOTAL
SEED	\$1.32		5	LBS	\$6.60					\$6.60
NITROGEN (N)	\$0.31			LBS	\$24.80					\$24.80
PHOSPHATE (P205)	\$0.24			LBS	\$9.60					\$9.60
HERBICIDE PUMP WATER	\$16.99			ACRE	\$16.99					\$16.99
CROP INSURANCE	\$0.14		12	AC. IN.	\$0.14					\$0.14
SUBTOTAL					\$58.13				-	\$58.13
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI RAT		PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP	185 HP		0.08	HR		\$0.68	\$2.24	\$0.88	\$1.88	\$5.68
DISC (2X)	185 HP		0.00			\$1.88	\$6.15	\$3.29	\$7.06	\$18.39
SPRAYER	126 HP		0.06			\$0.51	\$1.34	\$0.28	\$1.17	\$3.30
LISTER	185 HP		0.12			\$1.03	\$3.36	\$1.00	\$3.08	\$8.46
ROD WEED & PLANTER CULTIVATOR (2X)	185 HP 126 HP		0.18 0.26			\$1.54 \$2.22	\$5.03 \$5.79	\$1.52 \$2.00	\$5.92 \$3.87	\$14.02 \$13.88
IRRIGATE (12X)	120111		1.20			\$9.00	\$49.98	\$0.00	\$10.32	\$69.30
SUBTOTAL		-	2.12	HR		\$16.87	\$73.89	\$8.98	\$33.32	\$133.04
HARVEST OPERATIONS										
COMPINE	00 FT		0.40			£4.07	#0.50	(0.00	#0.00	CO 40
COMBINE HAUL	22 FT 2 TON		0.16 0.16			\$1.37 \$1.37	\$3.56 \$2.74	\$0.66 \$1.03	\$3.90 \$5.40	\$9.49 \$10.54
SUBTOTAL		-	0.32	HR		\$2.74	\$6.31	\$1.69	\$9.29	\$20.03
OVERHEAD EXPENSES										
						4				
DOWNTIME EMPLOYEE BENEFITS			0.61	HR		\$5.22 \$3.53				\$5.22 \$3.53
INSURANCE					\$0.39	ψ5.55				\$0.39
LAND TAXES									\$0.82	\$0.82
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$35.33	\$22.28				\$22.28 \$35.33
SUBTOTAL		-	0.61	HR	\$35.72	\$31.02			\$0.82	\$67.57
TOTAL OPERATING EXPENSES		-	2.73		\$93.85	\$50.62	\$80.19	\$10.67	\$43.43	\$278.76
NET OPERATING PROFIT			2.70		ψοσ.σσ	ψ00.02	φου.10	ψ10.07	ψ10.10	\$25.17
INTEREST ON OPERATING CAPITAL		(\$50.44	@	5.50%)				\$2.77
INTEREST ON EQUIPMENT INVESTMEN	Т	,				,				\$17.89
RETURN TO LAND AND RISK										\$4.50
* Pump water costs are shown under irrigat	ion in the preha		ions section. SUMMARY							
GROSS RETURN			\$303.93							
VARIABLE OPERATING EXPENSES		\$184.71		(0000	MADON'					
RETURN OVER VARIABLE EXPENSES FIXED EXPENSES		\$43.43	\$119.22	(GROSS	S MARGIN)					
NET FARM INCOME		•	\$75.79	(RETUR	RN TO CAPITAL, LA	ABOR, LAND	0 & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$50.62	\$25.17	(RETUR	RN TO CAPITAL, L	AND & RISK)			
CAPITAL COSTS RETURN TO LAND AND RISK		\$20.66	\$4.50							

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Projected 2018

	WHEAT	GRAIN SORGHUM
	(Dryland)	(Sprinkler)
	BU	CWT
PRIMARY YIELD	20.00	50.00
PRIMARY PRICE	\$4.40	\$6.08
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$5.00	\$0.00
GROSS RETURN	\$93.00	\$303.93
CASH OPERATING EXPENSES		
SEED	\$11.00	\$6.60
FERTILIZER		\$34.40
CHEMICALS CROP INSURANCE	\$0.08	\$16.99 \$0.14
OTHER PURCHASED INPUTS	Φ0.00	Ф0.14
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$18.47	\$30.22
FUEL-IRRIGATION	•	\$49.98
REPAIRS	\$6.01	\$10.67
CUSTOM CHARGES		
LAND TAXES	\$0.33	\$0.82
OTHER EXPENSES	\$19.22	\$35.72
TOTAL CASH EXPENSES	\$55.11	\$185.53
RETURN OVER CASH EXPENSES	\$37.89	\$118.40
FIXED EXPENSES	\$20.02	\$42.61
TOTAL EXPENSES	\$75.13	\$228.14
NET FARM INCOME	\$17.87	\$75.79
LABOR AND MANAGEMENT COSTS	\$17.29	\$50.62
NET OPERATING PROFIT	\$0.58	\$25.17
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.58	\$2.77
INTEREST ON EQUIPMENT INVESTMENT	\$8.29	\$17.89
TOTAL CAPITAL COSTS	\$8.86	\$20.66
RETURN TO LAND AND RISK	(\$8.29)	\$4.50

TABLE 9. Whole farm summary, Southern Quay County, Projected 2018

Filojecieu 2016		
GROSS RETURNS		
WHEAT 607.75 ACRES		
CROP	\$53,482	
GRAZING	\$3,039	
DIRECT PAYMENT	\$0	
COUNTER CYCLICAL PAYMENT	\$0	
GRAIN SORGHUM 357.25 ACRES		
CROP	\$108,578	
COUNTER CYCLICAL PAYMENT	\$0	
DIRECT PAYMENT	\$0	
GROSS RETURN		\$165,099
CASH OPERATING EXPENSES		
SEED	\$9,043	
FERTILIZER	\$12,289	
CHEMICALS	\$6,068	
CROP INSURANCE	\$100	
OTHER PURCHASED INPUTS	\$0	
CANAL WATER	\$0	
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$22,019	
FUEL-IRRIGATION	\$17,854	
REPAIRS	\$7,463	
CUSTOM CHARGES	\$0	
LAND TAXES	\$492	
OTHER EXPENSES	\$24,447	
TOTAL CASH EXPENSES	\$99,776	-
RETURN OVER CASH EXPENSES		\$65,323
FIXED EXPENSES	\$27,389	
TOTAL EXPENSES	\$127,165	
NET FARM INCOME		¢27.024
NET FARM INCOME		\$37,934
LABOR AND MANAGEMENT COSTS	\$28,593	
NET OPERATING PROFIT		\$9,341
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$1,342	
INTEREST ON EQUIPMENT INVESTMENT	\$11,426	
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TOTAL CAPITAL COSTS	\$12,768	
RETURN TO LAND AND RISK		(\$3,427)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$150 /ACRE	(\$7,927)	2.63%
\$300 /ACRE	(\$12,427)	1.85%
\$450 /ACRE	(\$16,927)	1.43%
\$600 /ACRE	(\$21,427)	1.16%
\$750 /ACRE	(\$25,927)	0.98%
\$900 /ACRE	(\$30,427)	0.85%

^{*} 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)