TABLE 1. Acreage Summary, Qua Projected 2019	y County,		
BUDGET AREASOUTHI FARM SIZE	CRES		
		WATER	USE
ACREAGE SUMMARY:	LAND USE (ACRES)	AC.IN. PER AC.	TOTAL AC.IN.
WHEAT ARP	607.75 0.00	0	0
FLEX IN GRAIN SORGHUM GRAIN SORGHUM ARP	107.25 212.50 0.00	0 12	0 2,550
FLEX IN GRAIN SORGHUM ROADS, HOMESTEAD, FALLOW	37.50	12	450
TOTAL	1,000.00		3,000

TABLE 2. Basic cost information for Southern Quay County, Projected 2019

Item				
Labor Wage Rate:				
Equipment operators		\$/hour		\$8.55
General & Irrigators		\$/hour		\$7.50
Purchased Inputs: Fertilizer:				
Nitrogen (N)		\$/pound		\$0.42
Phosphate (P205)		\$/pound		\$0.49
Seed:				
Wheat		\$/pound		\$0.40
Grain Sorghum		\$/pound		\$2.05
Energy Costs:				
Diesel fuel		\$/gallon		\$2.65
Gasoline		\$/gallon		\$2.35
Electricity (Farmers Elec Coop)		cents/KwHr		8.27
LP Gas		\$/gallon		\$2.75
Employee Liability Insurance		\$/\$1,000 wa	ages	\$20.00
Employee Benefits		percent/wag	ges	18.00%
Labor Downtime		percent		25.00%
Financial Rates:				
Operating Capital Interest Rate		percent		5.50%
Land Interest Rate		percent		5.00%
Equipment Interest Rate		percent		5.50%
Real Interest Rate		percent		3.00%
Land Taxes				
Irrigated		/acre (full va		\$0.82
Dryland	\$38.00	/acre (full va	alue)	\$0.33
Personal Property Tax Rate	- NR	\$/\$1,000	(Assessed	\$25.77
	- R		Value)	\$20.18
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 2019

Item					
Electricity (Domestic & Shop)		\$256.00	per month	\$3,072
Telephone			\$128.00	per month	\$1,536
Accounting & Legal					\$1,882
Misc. Supplies & Hand Tools					\$2,822
Pickup and Auto					
miles	26,368	@	\$0.500 per mile		\$13,184
Insurance - general liability (non-emple - fire/theft Property Taxes	oyee)				\$2,022 \$1,600
 non-planted land other than land & machine 	ery				\$0 \$6,010
Building repairs and mainten	ance				\$1,536
Dues, fees, publications					\$46
Farmstead Equipment					\$192
				Total	\$34,317
			Total per planted acre		\$35.56
			Total per dryland acre		\$19.21

TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County, Projected 2019

Projected 2019 Planting dates: August 20 - Se Harvesting dates: June 15 - Ju									
ITEM	PRICE		YIELD	BASE					TOTAL
GROSS RETURNS WHEAT PROGRAM PAYMENT PLC PAYMENT GRAZING	\$5.10 \$0.00 \$0.00 \$40.00		20.00 BUSHELS 20.00 BUSHELS 1.00 ACRE						\$102.00 \$0.00 \$0.00 \$40.00
TOTAL								-	\$142.00
PURCHASED INPUTS	PRICE		QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
SEED CROP INSURANCE SUBTOTAL	\$0.40 \$0.08		25 LBS	\$10.00 \$0.08 \$10.08				-	\$10.00 <u>\$0.08</u> \$10.08
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP (2X) STUBBLE MULCHER RODWEED (2X) DRILL	185 HP 185 HP 126 HP 126 HP		0.16 HR 0.08 HR 0.16 HR 0.12 HR		\$1.37 \$0.68 \$1.37 \$1.03	\$4.39 \$2.20 \$3.50 \$2.62	\$1.76 \$1.21 \$0.76 \$0.79	\$3.73 \$3.26 \$1.73 \$3.12	\$11.26 \$7.35 \$7.35 \$7.56
SUBTOTAL			0.52 HR		\$4.45	\$12.71	\$4.52	\$11.85	\$33.52
HARVEST OPERATIONS									
COMBINE HAUL	22 FT 2 TON		0.14 HR 0.14 HR		\$1.20 \$1.20	\$3.06 \$2.36	\$0.58 \$0.90	\$3.40 \$4.72	\$8.23 \$9.18
SUBTOTAL			0.28 HR		\$2.39	\$5.42	\$1.48	\$8.12	\$17.41
OVERHEAD EXPENSES									
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.20 HR	\$0.14 \$19.21	\$1.71 \$1.23 \$10.94			\$0.33	\$1.71 \$1.23 \$0.14 \$0.33 \$10.94 \$19.21
SUBTOTAL			0.20 HR	\$19.35	\$13.88			\$0.33	\$33.56
TOTAL OPERATING EXPENSES			1.00 HR	\$29.43	\$20.72	\$18.13	\$6.00	\$20.30	\$94.57
NET OPERATING PROFIT									\$47.43
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMEN	т	(\$9.92 @	5.50%)				\$0.55 \$8.26
RETURN TO LAND AND RISK									\$38.62
		BUDGET	SUMMARY						
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES		\$53.55	\$142.00 \$88.45 (GROS	S MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$20.30	\$68.15 (RETUR	RN TO CAPITAL, L	ABOR, LANI	D & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT CAPITAL COSTS		\$20.72 \$8.81		RN TO CAPITAL, L	AND & RISK	.)			
RETURN TO LAND AND RISK			\$38.62						

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 2019 Planting dates: June 15 - July 15

Harvesting dates: Septeml ITEM	PRICE		YIEL	D	BASE					ΤΟΤΑ
GROSS RETURNS	-									
GRAIN SORGHUM	\$6.33		50.00							\$316.25
PROGRAM PAYMENT	\$0.00		0.00		0.05					\$0.00
PLC PAYMENT	\$0.00		50.00	CWI	0.85					\$0.00
TOTAL									-	\$316.25
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	ΤΟΤΑ
	¢0.05		5		¢10.05					\$10.25
SEED NITROGEN (N)	\$2.05 \$0.42			LBS LBS	\$10.25 \$33.60					\$10.2
PHOSPHATE (P205)	\$0.49			LBS	\$19.60					\$19.6
HERBICIDE	\$16.99			ACRE	\$16.99					\$16.9
PUMP WATER	••••••			AC. IN.						
CROP INSURANCE	\$0.14				\$0.14					\$0.14
SUBTOTAL					\$80.58				-	\$80.58
	POWER		ACCOMPLI		PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT		INPUTS	LABOR	LUBE	REPAIRS	COST	ΤΟΤΑ
SWEEP	185 HP		0.08	HR		\$0.68	\$2.20	\$0.88	\$1.87	\$5.63
DISC (2X)	185 HP		0.22			\$1.88	\$6.04	\$3.28	\$7.04	\$18.24
SPRAYER	126 HP		0.06			\$0.51	\$1.31	\$0.28	\$1.17	\$3.28
LISTER	185 HP		0.12			\$1.03	\$3.29	\$0.99	\$3.07	\$8.3
ROD WEED & PLANTER	185 HP		0.18	HR		\$1.54	\$4.94	\$1.52	\$5.90	\$13.9
CULTIVATOR (2X)	126 HP		0.26			\$2.22	\$5.68	\$2.00	\$3.86	\$13.7
IRRIGATE (12X)			1.20	HR		\$9.00	\$49.98	\$0.00	\$10.32	\$69.30
SUBTOTAL		-	2.12	HR		\$16.87	\$73.44	\$8.95	\$33.23	\$132.49
HARVEST OPERATIONS										
COMBINE	22 FT		0.16			\$1.37	\$3.50	\$0.66	\$3.89	\$9.41
HAUL	2 TON		0.16			\$1.37	\$2.69	\$1.03	\$5.40	\$10.49
SUBTOTAL		-	0.32	HR		\$2.74	\$6.19	\$1.69	\$9.28	\$19.90
OVERHEAD EXPENSES										
			0.61	HR		\$5.22 \$2.52				\$5.2 \$3.5
EMPLOYEE BENEFITS INSURANCE					\$0.39	\$3.53				\$0.3
LAND TAXES					ψ0.00				\$0.82	\$0.8
SUPERVISION AND MANAGEMENT						\$23.14			\$0.0L	\$23.1
OTHER EXPENSES					\$35.56					\$35.56
SUBTOTAL		-	0.61	HR	\$35.95	\$31.88			\$0.82	\$68.66
TOTAL OPERATING EXPENSES		-	2.73	HR	\$116.53	\$51.48	\$79.63	\$10.64	\$43.34	\$301.62
NET OPERATING PROFIT										\$14.63
INTEREST ON OPERATING CAPITAI		(\$61.54	@	5.50%)				\$3.38
INTEREST ON EQUIPMENT INVEST		ſ	ψ01.54	۲	0.00 /1	,				\$17.84
RETURN TO LAND AND RISK										(\$6.60
* Pump water costs are shown under ir	rrigation in the preha									
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES		\$206.80	\$316.25							
RETURN OVER VARIABLE EXPENSES	3		\$109.45	(GROSS	S MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$43.34	\$66.11	(RETUR	N TO CAPITAL, L	ABOR, LANE	0 & RISK)			
LABOR AND MANAGEMENT COST NET OPERATING PROFIT		\$51.48	\$14.63	(RETUR	N TO CAPITAL, L	AND & RISK)			

PRIMARY YIELD PRIMARY PRICE GOVERNMENT PAYMENTS SECOND INCOME GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES LAND TAXES	(Dryland) BU 20.00 \$5.10 \$0.00 \$40.00 \$142.00 \$10.00	(Sprinkler) CWT 50.00 \$6.33 \$0.00 \$0.00 \$316.25
PRIMARY PRICE GOVERNMENT PAYMENTS SECOND INCOME GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	20.00 \$5.10 \$0.00 \$40.00 \$142.00	50.00 \$6.33 \$0.00 \$0.00
PRIMARY PRICE GOVERNMENT PAYMENTS SECOND INCOME GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$5.10 \$0.00 \$40.00 \$142.00	\$6.33 \$0.00 \$0.00
GOVERNMENT PAYMENTS SECOND INCOME GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$0.00 \$40.00 \$142.00	\$0.00 \$0.00
SECOND INCOME GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL, IRRIGATION REPAIRS CUSTOM CHARGES	\$40.00 \$142.00	\$0.00
GROSS RETURN CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$142.00	
CASH OPERATING EXPENSES SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES		\$316.25
SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$10.00	
FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$10.00	• • • • • •
CHEMICALS CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES		\$10.25
CROP INSURANCE OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES		\$53.20 \$16.99
OTHER PURCHASED INPUTS CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	\$0.08	\$10.99
CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT FUEL-IRRIGATION REPAIRS CUSTOM CHARGES	ψ0.00	ψ0.14
FUEL-IRRIGATION REPAIRS CUSTOM CHARGES		
REPAIRS CUSTOM CHARGES	\$18.13	\$29.66
CUSTOM CHARGES		\$49.98
	\$6.00	\$10.64
LAND TAXES	¢0.00	¢0.00
OTHER EXPENSES	\$0.33 \$19.35	\$0.82 \$35.95
		·
TOTAL CASH EXPENSES	\$53.88	\$207.62
RETURN OVER CASH EXPENSES	\$88.12	\$108.63
FIXED EXPENSES	\$19.97	\$42.51
TOTAL EXPENSES	\$73.85	\$250.14
NET FARM INCOME	\$68.15	\$66.11
LABOR AND MANAGEMENT COSTS	\$20.72	\$51.48
NET OPERATING PROFIT	\$47.43	\$14.63
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.55	\$3.38
INTEREST ON EQUIPMENT INVESTMENT	\$8.26	\$17.84
TOTAL CAPITAL COSTS	\$8.81	\$21.23
RETURN TO LAND AND RISK		

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Projected 2019

Projected 2019				
GROSS RETURNS WHEAT CROP GRAZING PROGRAM PAYMENT PLC PAYMENT GRAIN SORGHUM CROP PROGRAM PAYMENT PLC PAYMENT GROSS RETURN	357.25 ACRES	\$61,991 \$24,310 \$0 \$0 \$112,980 \$0 \$0	-	\$199,281
CASH OPERATING EXPE SEED FERTILIZER CHEMICALS CROP INSURANCE OTHER PURCHASED CANAL WATER FUEL, OIL & LUBRICA FUEL-IRRIGATION REPAIRS CUSTOM CHARGES LAND TAXES OTHER EXPENSES	INPUTS	\$9,739 \$19,006 \$6,068 \$100 \$0 \$21,611 \$17,854 \$7,444 \$0 \$493 \$24,604		
TOTAL CASH	EXPENSES		\$106,919	
RETURN OVER CASH EX	PENSES			\$92,362
FIXED EXPENSES		\$27,326		
TOTAL EXPEN	ISES		\$134,245	
NET FARM INCOME				\$65,036
LABOR AND MANAGEME	ENT COSTS	\$30,986		
NET OPERATING PROFI	т			\$34,051
CAPITAL COSTS INTEREST ON OPERA INTEREST ON EQUIP		\$1,541 \$11,397		
TOTAL CAPIT.	AL COSTS		\$12,938	
RETURN TO LAND AND I	RISK		-	\$21,113

 TABLE 9.
 Whole farm summary, Southern Quay County, Projected 2019

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$150 /ACRE	\$16,613	9.59%
\$300 /ACRE	\$12,113	6.74%
\$450 /ACRE	\$7,613	5.20%
\$600 /ACRE	\$3,113	4.23%
\$750 /ACRE	(\$1,387)	3.56%
\$900 /ACRE	(\$5,887)	3.08%

* 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)