TABLE 1. Acreage Summary, Quay County, Projected 2017

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

NUMBER OF CROPS......2.

		WATER	USE
ACREAGE SUMMARY:	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 2017

	Projected 2017					
-	tem					
Labor Wag	je Rate:					
Equipme	ent operators			\$/hour		\$8.55
General	& Irrigators			\$/hour		\$7.50
Purchased						
Fertilizer	•			0/		00.00
	Nitrogen (N)			\$/pound		\$0.22
Seed:	Phosphate (P205)			\$/pound		\$0.27
Seeu.	Wheat			\$/pound		\$0.44
	Grain Sorghum			\$/pound		\$1.70
	Grain Sorgitum			ф/рошта		\$1.70
Energy Co	sts:					
Diesel fu	iel			\$/gallon		\$2.35
Gasoline)			\$/gallon		\$2.10
Electricit	y (Farmers Elec Coop)			cents/KwHi	r	8.27
LP Gas				\$/gallon		\$2.75
Employee	Liability Insurance			\$/\$1,000 w	ages	\$20.00
Employee	Benefits			percent/wa	ges	18.00%
Labor Dow	ntime			percent		25.00%
Financial R	tates:					
Operating	Capital Interest Rate			percent		5.50%
Land Inte	rest Rate			percent		5.00%
Equipmer	nt Interest Rate			percent		5.50%
Real Inter	est Rate			percent		3.00%
Land Taxe	s					
Irrigated			\$96.00	/acre (full v	alue)	\$0.82
Dryland				/acre (full v		\$0.33
Personal P	roperty Tax Rate	- NF	₹	\$/\$1,000	(Assessed	\$25.73
		-	R		Value)	\$20.14
Supervision	n Factors					
Field Cro	op-Irrigation			\$/acre		\$1.00
Field Cro	op-Equipment & General			\$/acre		\$0.50
Manageme	ent Rate			percent		7.00%

TABLE 3. Overhead cost information for Southern Quay County, Projected 2017

Item					
Electricity (Domestic &	Shop)		\$242.00	per month	\$2,90
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		\$12,46
Insurance					
- general liability (non-	employee)				\$1,91
- fire/theft					\$1,51
Property Taxes					
 non-planted land 					\$
 other than land & ma 	•				\$6,01
Building repairs and ma					\$1,45
Dues, fees, publications	3				\$43
Farmstead Equipment					\$18
				Total	\$32,76
			Total per planted acre		\$33.9
			Total per dryland acre		\$18.3

0.540 0.154 0.160 8.27 CENTSKI \$2.75 \$IGAL \$2.35 \$IGAL \$3.22 \$4.16 \$13.84 \$17.89 | Notice | N | MANUAL | MANUAL | TOTAL | MANUAL | MA TOTAL PER HR \$10.30 \$18.57 \$20.61 \$3.75 \$33.73 \$13.79 \$0.55 \$4.91 \$4.58 \$11.54 \$15.73 \$7.12 \$22.33 \$9.27 \$0.44 \$0.22 ## HP ## HP ## HP 22 FT 2 TON 6 MOW 23 FT 6 MOW 15 FT OFFSET 25 FT 6 MOW 25 FT 6 MOW 25 FT 16 FT (MOVEABLE \$5,515 \$8,769 \$2,757 \$2,123 \$0 \$17,854 \$2,647 \$6,294 \$2,647 \$501 \$4,600 \$850 \$500 \$400 \$1,000 \$1,100 \$1,000 \$1,000 \$1,100 \$1,100 \$1,100 \$1,100 \$1,100 \$1,100 \$1,100 \$1,100 \$284 \$404 \$224 \$32 \$197 \$35 \$5 \$37 \$24 \$47 \$47 \$18 \$25 \$118 \$25 \$118 \$25 \$118 \$25 FUEL LUBE ACCUM
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TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County, Projected 2017
Planting dates: August 20 - September 15
Harvesting dates: June 15 - July 10

ITEM	PRICE		YIEI	_D	BASE					TOTAL
GROSS RETURNS WHEAT DIRECT PAYMENT COUNTER CYCLICAL PAYMENT GRAZING	\$4.20 \$0.00 \$0.00 \$5.00		20.00	BUSHELS BUSHELS ACRE						\$84.00 \$0.00 \$0.00 \$5.00
TOTAL									=	\$89.00
PURCHASED INPUTS	PRICE		QUAN	TITY	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
	DOWED				PURQUAGER		EUEL 0		FIVED	
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLI RAT		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 0.08 0.16 0.12	HR HR		\$1.37 \$0.68 \$1.37 \$1.03	\$3.89 \$1.95 \$3.10 \$2.33	\$1.77 \$1.21 \$0.76 \$0.79	\$3.76 \$3.27 \$1.74 \$3.12	\$10.79 \$7.11 \$6.97 \$7.27
SUBTOTAL		•	0.52	HR		\$4.45	\$11.27	\$4.53	\$11.89	\$32.14
HARVEST OPERATIONS										
COMBINE HAUL	22 FT 2 TON		0.14 0.14			\$1.20 \$1.20	\$2.71 \$2.09	\$0.58 \$0.90	\$3.41 \$4.72	\$7.90 \$8.91
SUBTOTAL			0.28	HR		\$2.39	\$4.80	\$1.48	\$8.13	\$16.81
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE LAND TAXES SUPERVISION AND MANAGEMENT OTHER EXPENSES			0.20	HR	\$0.14 \$18.35	\$1.71 \$1.23 \$7.23			\$0.33	\$1.71 \$1.23 \$0.14 \$0.33 \$7.23 \$18.35
SUBTOTAL		•	0.20	HR	\$18.48	\$10.17			\$0.33	\$28.98
TOTAL OPERATING EXPENSES		•	1.00	HR	\$29.56	\$17.01	\$16.07	\$6.01	\$20.35	\$89.01
NET OPERATING PROFIT										(\$0.01)
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTMENT		(\$10.02	@	5.50%)				\$0.55 \$8.29
RETURN TO LAND AND RISK										(\$8.84)
		BUDGET	SUMMARY							
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES FIXED EXPENSES NET FARM INCOME LABOR AND MANAGEMENT COST		\$51.65 \$20.35 \$17.01	\$89.00 \$37.35 \$17.01		S MARGIN) N TO CAPITAL, L	ABOR, LANE	O & RISK)			
NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$8.84	(\$0.01) (\$8.84)	(RETUR	N TO CAPITAL, L	AND & RISK)			

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 2017
Planting dates: June 15 - July 15
Harvesting dates: September 20 - October 30

3 3										
ITEM	PRICE		YIEL	D	BASE					TOTA
GROSS RETURNS										
GRAIN SORGHUM	\$5.91		50.00							\$295.71
COUNTER CYCLICAL PAYMENT	\$0.00		0.00							\$0.00
DIRECT PAYMENT	\$0.00		50.00	CWT	0.85					\$0.00
TOTAL									-	\$295.71
					PURCHASED				FIXED	
PURCHASED INPUTS	PRICE		QUANT	TTY	INPUTS				COST	TOTA
SEED	\$1.70		5 I	LBS	\$8.50					\$8.50
NITROGEN (N)	\$0.22		80 I	LBS	\$17.60					\$17.60
PHOSPHATE (P205)	\$0.27		40 I	LBS	\$10.80					\$10.80
HERBICIDE	\$16.99		1 /	ACRE	\$16.99					\$16.99
PUMP WATER				AC. IN.						
CROP INSURANCE	\$0.14				\$0.14					\$0.14
SUBTOTAL					\$54.03				-	\$54.03
	POWER		ACCOMPLIS		PURCHASED		FUEL &		FIXED	
PREHARVEST OPERATIONS	UNIT		RAT	<u>E</u>	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
OWEED	105 115						04.05		04.00	0= 00
SWEEP	185 HP		0.08			\$0.68	\$1.95	\$0.88	\$1.88	\$5.39
DISC (2X)	185 HP		0.22			\$1.88	\$5.36	\$3.29	\$7.06	\$17.59
SPRAYER	126 HP		0.06			\$0.51	\$1.16	\$0.28	\$1.17	\$3.13
LISTER	185 HP		0.12			\$1.03	\$2.92	\$1.00	\$3.08	\$8.03
ROD WEED & PLANTER	185 HP		0.18			\$1.54	\$4.38	\$1.52	\$5.92	\$13.37
CULTIVATOR (2X)	126 HP		0.26			\$2.22	\$5.04	\$2.00	\$3.87	\$13.13
IRRIGATE (12X)			1.20	HR		\$9.00	\$49.98	\$0.00	\$10.32	\$69.30
SUBTOTAL		_	2.12	HR		\$16.87	\$70.79	\$8.98	\$33.32	\$129.94
HARVEST OPERATIONS										
COMBINE	22 FT		0.16			\$1.37	\$3.10	\$0.66	\$3.90	\$9.03
HAUL	2 TON	_	0.16			\$1.37	\$2.39	\$1.03	\$5.40	\$10.18
SUBTOTAL			0.32	HR		\$2.74	\$5.49	\$1.69	\$9.29	\$19.21
OVERHEAD EXPENSES										
DOWNTIME			0.61	HR		\$5.22				\$5.22
EMPLOYEE BENEFITS			0.01			\$3.53				\$3.53
INSURANCE					\$0.39	ψ3.33				\$0.39
LAND TAXES					ψ0.55				\$0.82	\$0.82
SUPERVISION AND MANAGEMENT						\$21.70			φ0.62	\$21.70
OTHER EXPENSES					\$33.96	φ21.70				\$33.96
SUBTOTAL		-	0.61	HR	\$34.35	\$30.44			\$0.82	\$65.62
TOTAL OPERATING EXPENSES		-	2.73	HR	\$88.38	\$50.05	\$76.28	\$10.67	\$43.43	\$268.80
NET OPERATING PROFIT										\$26.92
INTEREST ON OPERATING CAPITAL		(\$47.55	@	5.50%)				\$2.62
INTEREST ON EQUIPMENT INVESTMENT	Т									\$17.89
RETURN TO LAND AND RISK										\$6.42

. ,	BUDGET S	SUMMARY	
GROSS RETURN		\$295.71	
VARIABLE OPERATING EXPENSES	\$175.32		
RETURN OVER VARIABLE EXPENSES		\$120.40	(GROSS MARGIN)
FIXED EXPENSES	\$43.43		
NET FARM INCOME		\$76.96	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	\$50.05		
NET OPERATING PROFIT		\$26.92	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	\$20.50		
RETURN TO LAND AND RISK		\$6.42	

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Projected 2017

Projected 2017		
	WHEAT	GRAIN SORGHUM
	(Dryland)	(Sprinkler)
	BU	CWT
PRIMARY YIELD	20.00	50.00
PRIMARY PRICE	\$4.20	\$5.91
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$5.00	\$0.00
GROSS RETURN	\$89.00	\$295.71
CASH OPERATING EXPENSES		
SEED	\$11.00	\$8.50
FERTILIZER		\$28.40
CHEMICALS	00.00	\$16.99
CROP INSURANCE OTHER PURCHASED INPUTS	\$0.08	\$0.14
CANAL WATER		
FUEL, OIL & LUBRICANTS-EQUIPMENT	\$16.07	\$26.30
FUEL-IRRIGATION	ψ10.07	\$49.98
REPAIRS	\$6.01	\$10.67
CUSTOM CHARGES	Ψ0.0.	ψ.σ.σ.
LAND TAXES	\$0.33	\$0.82
OTHER EXPENSES	\$18.48	\$34.35
TOTAL CASH EXPENSES	\$51.97	\$176.14
RETURN OVER CASH EXPENSES	\$37.03	\$119.57
FIXED EXPENSES	\$20.02	\$42.61
TOTAL EXPENSES	\$71.99	\$218.75
NET FARM INCOME	\$17.01	\$76.96
LABOR AND MANAGEMENT COSTS	\$17.01	\$50.05
NET OPERATING PROFIT	(\$0.01)	\$26.92
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.55	\$2.62
INTEREST ON EQUIPMENT INVESTMENT	\$8.29	\$17.89
TOTAL CAPITAL COSTS	\$8.84	\$20.50
RETURN TO LAND AND RISK	(\$8.84)	\$6.42

TABLE 9. Whole farm summary, Southern Quay County, Projected 2017

1 10,00000 2011			
GROSS RETURNS			
WHEAT 607.75 AC	RES		
CROP	\$51,051		
GRAZING	\$3,039		
DIRECT PAYMENT	\$0		
COUNTER CYCLICAL PAYMENT	\$0		
GRAIN SORGHUM 357.25 AC			
CROP	\$105,644		
COUNTER CYCLICAL PAYMENT	\$0		
DIRECT PAYMENT	\$0		
GROSS RETURN		-	\$159,734
CASH OPERATING EXPENSES			
SEED	\$9,722		
FERTILIZER	\$10,146		
CHEMICALS	\$6,068		
CROP INSURANCE	\$100		
OTHER PURCHASED INPUTS	\$0		
CANAL WATER	\$0		
FUEL, OIL & LUBRICANTS-EQUIPME	NT \$19,164		
FUEL-IRRIGATION	\$17,854		
REPAIRS	\$7,463		
CUSTOM CHARGES	\$0		
LAND TAXES	\$492		
OTHER EXPENSES	\$23,504		
TOTAL CASH EXPENSES	·	\$94,514	
RETURN OVER CASH EXPENSES			\$65,219
FIXED EXPENSES	\$27,389		
TOTAL EXPENSES		\$121,903	
NET FARM INCOME			\$37,830
LABOR AND MANAGEMENT COSTS	\$28,217		
NET OPERATING PROFIT			\$9,613
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL	\$1,269		
INTEREST ON EQUIPMENT INVESTM	MENT \$11,426		
TOTAL CAPITAL COSTS	-	\$12,695	
RETURN TO LAND AND RISK		<u>-</u>	(\$3,082)

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT*
\$150 /ACRE	(\$7,582)	2.71%
\$300 /ACRE	(\$12,082)	1.90%
\$450 /ACRE	(\$16,582)	1.47%
\$600 /ACRE	(\$21,082)	1.19%
\$750 /ACRE	(\$25,582)	1.01%
\$900 /ACRE	(\$30,082)	0.87%

 $^{^{\}star}$ 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)