TABLE 1. Acreage Summa Actual 2023	ary, Quay County,		
FARM SIZE IRRIGATION TYPE			
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 SORGHUI	M 107.25	0	0
GRAIN SORGHUM	212.50	12	2.550
ARP	0.00		
FLEX IN GRAIN SORGHUI ROADS, HOMESTEAD,	M 37.50	12	450
FALLOW	35.00		
	TOTAL 1,000.00		3,000

 TABLE 2.
 Basic cost information for Southern Quay County, Actual 2023

Item				
_abor Wage Rate:				
Equipment operators		\$/hour		\$20.00
General & Irrigators		\$/hour		\$16.60
Purchased Inputs:				
Fertilizer:				
Nitrogen (N)		\$/pound		\$0.83
Phosphate (P205)		\$/pound		\$2.00
Seed:				
Wheat		\$/pound		\$0.50
Grain Sorghum		\$/pound		\$2.05
Energy Costs:				
Diesel fuel		\$/gallon		\$4.33
Gasoline		\$/gallon		\$2.99
Electricity (Farmers Elec Coop)		cents/KwHr		9.7
LP Gas		\$/gallon		\$2.75
		¢/guilon		ψ2.70
Employee Liability Insurance		\$/\$1,000 w	ages	\$20.00
Employee Benefits		percent/wa	ges	18.00%
_abor Downtime		percent		25.00%
Financial Rates:				
Operating Capital Interest Rate		percent		7.25%
Land Interest Rate		, percent		9.15%
Equipment Interest Rate		percent		8.75%
Real Interest Rate		percent		4.25%
and Taxes				
Irrigated	\$96.00	/acre (full v	alue)	\$0.82
Dryland		/acre (full v		\$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
		÷		φ0.00

TABLE 3. Overhead cost information for Southern Quay County, Actual 2023

Item					
Electricity (Domestic & S	hop)		\$256.00	per month	\$3,072
Telephone			\$128.00	per month	\$1,536
Accounting & Legal				-	\$1,882
Misc. Supplies & Hand T	ools				\$2,822
Pickup and Auto					
miles	26,368	@	\$0.665 per mile		\$17,53
Insurance - general liability (non-e - fire/theft Property Taxes	mployee)				\$2,022 \$1,600
- non-planted land - other than land & mad	chinery				\$ \$6,01
Building repairs and mai	ntenance				\$1,53
Dues, fees, publications					\$46
Farmstead Equipment					\$19
				Total	\$38,66
			Total per planted acre		\$40.0
			Total per dryland acre		\$21.6

TABLE 6. Wheat, dryland, budgeted per acre costs and returns for a 1,000 acre farm with above average management, Southern Quay County, Actual 2023

Actual 2023 Planting dates: August 20 - S Harvesting dates: June 15 - J										
ITEM	PRICE		YIELD		BASE					TOTAL
GROSS RETURNS WHEAT PROGRAM PAYMENT PLC PAYMENT GRAZING	\$5.80 \$0.00 \$0.00 \$40.00		20.00 BUS 20.00 BUS 1.00 ACR	BHELS	0.85					\$116.00 \$0.00 \$0.00 \$40.00
TOTAL									-	\$156.00
PURCHASED INPUTS	PRICE		QUANTITY		PURCHASED INPUTS				FIXED COST	TOTAL
SEED CROP INSURANCE	\$0.50 \$0.08		25 LBS		\$12.50 \$0.08					\$12.50 \$0.08
SUBTOTAL				-	\$12.58				-	\$12.58
PREHARVEST OPERATIONS	POWER UNIT		ACCOMPLISHME RATE	ENT	PURCHASED INPUTS	LABOR	FUEL & LUBE	REPAIRS	FIXED COST	TOTAL
SWEEP (2X)	185 HP		0.16 HR			\$3.20	\$7.18	\$1.76	\$3.73	\$15.87
STUBBLE MULCHER RODWEED (2X)	185 HP 126 HP		0.08 HR 0.16 HR			\$1.60 \$3.20	\$3.59 \$5.71	\$1.21 \$0.76	\$3.26 \$1.73	\$9.66 \$11.40
DRILL	126 HP		0.12 HR			\$2.40	\$4.29	\$0.79	\$3.12	\$10.60
SUBTOTAL			0.52 HR			\$10.40	\$20.77	\$4.52	\$11.85	\$47.53
HARVEST OPERATIONS										
COMBINE HAUL	22 FT 2 TON		0.14 HR 0.14 HR			\$2.80 \$2.80	\$5.00 \$3.85	\$0.58 \$0.90	\$3.40 \$4.72	\$11.78 \$12.27
SUBTOTAL			0.28 HR			\$5.60	\$8.85	\$1.48	\$8.12	\$24.05
OVERHEAD EXPENSES										
DOWNTIME EMPLOYEE BENEFITS INSURANCE			0.20 HR		\$0.32	\$4.00 \$2.88				\$4.00 \$2.88 \$0.32
LAND TAXES					\$0.0 <u>2</u>	¢11.00			\$0.33	\$0.33
SUPERVISION AND MANAGEMENT OTHER EXPENSES					\$21.65	\$11.92				\$11.92 \$21.65
SUBTOTAL			0.20 HR		\$21.97	\$18.80			\$0.33	\$41.09
TOTAL OPERATING EXPENSES			1.00 HR		\$34.55	\$34.80	\$29.62	\$6.00	\$20.30	\$125.26
NET OPERATING PROFIT										\$30.74
INTEREST ON OPERATING CAPITAL INTEREST ON EQUIPMENT INVESTME	NT	(\$13.47 @		7.25%)				\$0.98 \$13.15
RETURN TO LAND AND RISK										\$16.61
		BUDGET	SUMMARY							
GROSS RETURN			\$156.00							
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSES		\$70.16	\$85.84 (Gl	ROSS	MARGIN)					
FIXED EXPENSES NET FARM INCOME		\$20.30	\$65.54 (RI	FTURN	N TO CAPITAL, L) & RISK)			
LABOR AND MANAGEMENT COST		\$34.80	,							
NET OPERATING PROFIT CAPITAL COSTS RETURN TO LAND AND RISK		\$14.12	\$30.74 (RI \$16.61		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, Actual 2023 Planting dates: June 15 - July 15

ITEM	PRICE		YIEL	D	BASE					ΤΟΤΑ
GROSS RETURNS										
GRAIN SORGHUM	\$8.96		50.00							\$448.00
PROGRAM PAYMENT	\$0.00		0.00		0.05					\$0.00
PLC PAYMENT	\$0.00		50.00	CWI	0.85					\$0.00
TOTAL									-	\$448.00
PURCHASED INPUTS	PRICE		QUAN	TITY	PURCHASED INPUTS				FIXED COST	ΤΟΤΑ
	\$2.05			LBS	\$10.25					\$10.2 \$66.4
NITROGEN (N) PHOSPHATE (P205)	\$0.83 \$2.00			LBS LBS	\$66.40 \$80.00					\$00.4
HERBICIDE	\$2.00			ACRE	\$16.99					\$80.0 \$16.9
PUMP WATER	φ10.55			AC. IN.	φ10.55					φ10.5
CROP INSURANCE	\$0.14		12	AC. IN.	\$0.14					\$0.1
SUBTOTAL					\$173.78				-	\$173.7
000101112					<i>Q H</i> of <i>H</i> o					ф н он о
	POWER		ACCOMPLI		PURCHASED		FUEL &		FIXED	
REHARVEST OPERATIONS	UNIT		RAT	E	INPUTS	LABOR	LUBE	REPAIRS	COST	TOTA
SWEEP	185 HP		0.08			\$1.60	\$3.59	\$0.88	\$1.87	\$7.94
DISC (2X)	185 HP		0.22	HR		\$4.40	\$9.87	\$3.28	\$7.04	\$24.5
SPRAYER	126 HP		0.06	HR		\$1.20	\$2.14	\$0.28	\$1.17	\$4.7
LISTER	185 HP		0.12			\$2.40	\$5.38	\$0.99	\$3.07	\$11.8
ROD WEED & PLANTER	185 HP		0.18	HR		\$3.60	\$8.07	\$1.52	\$5.90	\$19.0
CULTIVATOR (2X)	126 HP		0.26			\$5.20	\$9.29	\$2.00	\$3.86	\$20.3
IRRIGATE (12X)			1.20	HR		\$19.92	\$59.08	\$0.00	\$10.32	\$89.3
SUBTOTAL			2.12	HR		\$38.32	\$97.42	\$8.95	\$33.23	\$177.9
ARVEST OPERATIONS										
COMBINE	22 FT		0.16			\$3.20	\$5.71	\$0.66	\$3.89	\$13.4
HAUL	2 TON		0.16			\$3.20	\$4.40	\$1.03	\$5.40	\$14.0
SUBTOTAL			0.32	HR		\$6.40	\$10.12	\$1.69	\$9.28	\$27.4
OVERHEAD EXPENSES										
DOWNTIME			0.61	HR		\$12.20				\$12.2
EMPLOYEE BENEFITS						\$8.05				\$8.0
INSURANCE					\$0.89					\$0.8
LAND TAXES									\$0.82	\$0.8
SUPERVISION AND MANAGEMENT	Г					\$32.36				\$32.3
OTHER EXPENSES					\$40.07					\$40.0
SUBTOTAL			0.61	HR	\$40.96	\$52.61			\$0.82	\$94.4
OTAL OPERATING EXPENSES			2.73	HR	\$214.74	\$97.33	\$107.54	\$10.64	\$43.34	\$473.5
IET OPERATING PROFIT										(\$25.5
INTEREST ON OPERATING CAPITA	AL	(\$114.46	@	7.25%)				\$8.3
INTEREST ON EQUIPMENT INVES		,		0		,				\$28.3
RETURN TO LAND AND RISK										(\$62.2
* Pump water costs are shown under	irrigation in the preh									
		BODGET	SUMMARY							
			\$448.00							
		\$332.91								
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSE	S		\$115.09	(GROS	S MARGIN)					
GROSS RETURN VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSE FIXED EXPENSES NET FARM INCOME	S	\$332.91 \$43.34	\$115.09 \$71.75		S MARGIN) RN TO CAPITAL, L	ABOR, LANI	D & RISK)			
VARIABLE OPERATING EXPENSES RETURN OVER VARIABLE EXPENSE FIXED EXPENSES	S			(RETUF						

	WHEAT	GRAIN SORGHUM
	(Dryland)	(Sprinkler)
	BU	CWT
PRIMARY YIELD	20.00	50.00
PRIMARY PRICE	\$5.80	\$8.96
GOVERNMENT PAYMENTS	\$0.00	\$0.00
SECOND INCOME	\$40.00	\$0.00
GROSS RETURN	\$156.00	\$448.00
CASH OPERATING EXPENSES		
SEED	\$12.50	\$10.25
FERTILIZER		\$146.40
CHEMICALS		\$16.99
CROP INSURANCE	\$0.08	\$0.14
OTHER PURCHASED INPUTS		
CANAL WATER FUEL, OIL & LUBRICANTS-EQUIPMENT	\$29.62	\$48.46
FUEL-IRRIGATION	φ29.02	\$59.08
REPAIRS	\$6.00	\$10.64
CUSTOM CHARGES	\$0.00	
LAND TAXES	\$0.33	\$0.82
OTHER EXPENSES	\$21.97	\$40.96
TOTAL CASH EXPENSES	\$70.49	\$333.74
RETURN OVER CASH EXPENSES	\$85.51	\$114.26
FIXED EXPENSES	\$19.97	\$42.51
TOTAL EXPENSES	\$90.46	\$376.25
NET FARM INCOME	\$65.54	\$71.75
ABOR AND MANAGEMENT COSTS	\$34.80	\$97.33
NET OPERATING PROFIT	\$30.74	(\$25.58)
CAPITAL COSTS		
INTEREST ON OPERATING CAPITAL	\$0.98	\$8.30
INTEREST ON EQUIPMENT INVESTMENT	\$13.15	\$28.39
TOTAL CAPITAL COSTS	\$14.12	\$36.69
		(\$62.26)

TABLE 8. Summary of per acre costs and returns for a 1,000 acre farm, Southern Quay County, Actual 2023

Actual 2023				
GROSS RETURNS				
WHEAT	607.75 ACRES			
CROP	UNITO AUNEO	\$70,499		
GRAZING		\$24,310		
PROGRAM PAYMENT		\$0		
PLC PAYMENT		\$0		
GRAIN SORGHUM	357.25 ACRES			
CROP		\$160,048		
PROGRAM PAYMENT		\$0		
PLC PAYMENT		\$0		
			_	
GROSS RETURN				\$254,857
CASH OPERATING EXPE	NSES			
SEED		\$11,259		
FERTILIZER		\$52,301		
CHEMICALS		\$6,068		
CROP INSURANCE		\$100		
OTHER PURCHASED I	NPUTS	\$0		
CANAL WATER		\$0		
FUEL, OIL & LUBRICAI	NTS-EQUIPMENT	\$35,312		
FUEL-IRRIGATION		\$21,105		
REPAIRS		\$7,444		
CUSTOM CHARGES		\$0		
LAND TAXES		\$493		
OTHER EXPENSES		\$27,985		
TOTAL CASH E			\$162,067	
			ψ102,007	
RETURN OVER CASH EX	PENSES			\$92,790
FIXED EXPENSES		\$27,326		
TOTAL EXPEN	SES		\$189,393	
NET FARM INCOME				\$65,464
LABOR AND MANAGEME	NT COSTS	\$55,921		
NET OPERATING PROFIT	-			\$9,543
CAPITAL COSTS				
INTEREST ON OPERA		\$3,558		
INTEREST ON EQUIPM		\$18,131		
		φ10,101		
TOTAL CAPITA	AL COSTS		\$21,689	
RETURN TO LAND AND R	RISK		-	(\$12,146)

TABLE 9. Whole farm summary, Southern Quay County, Actual 2023

	RETURN	RETURN ON
LAND VALUE	TO RISK*	INVESTMENT**
\$150 /ACRE	(\$18,521)	2.69%
\$300 /ACRE	(\$24,896)	1.89%
\$450 /ACRE	(\$31,271)	1.46%
\$600 /ACRE	(\$37,646)	1.19%
\$750 /ACRE	(\$44,021)	1.00%
\$900 /ACRE	(\$50,396)	0.86%

* 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)