

TABLE 1. Basic cost information for the Arch Hurley Conservancy District, Quay County. Projected 2010.

Item		
Labor Wage Rate:		
Equipment Operators	\$/hour	8.55
General and Irrigators	\$/hour	7.25
Purchased Inputs:		
Fertilizer		
Nitrogen (N)	\$/pound	0.58
Phosphate (P205)	\$/pound	0.51
(16-4-12-12)	\$/pound	0.21
Seed:		
Alfalfa	\$/pound	3.75
Wheat	\$/pound	0.26
Grain Sorghum	\$/pound	2.10
Jose Wheatgrass	\$/pound	0.00
Wire		
Canal Water	\$/box	5.00
Assessment	\$/acre	10.00
Water 1 - 18 inches	\$/acre foot	10.00
Energy:		
Diesel	\$/gallon	2.80
Gasoline	\$/gallon	2.50
LP Gas	\$/gallon	2.55
Electricity	\$/KwHr	7.26
Employee Liability Insurance	\$/1,000 wages	0.31
Employee Benefits	percent/wages	\$20.00
Labor Downtime	percent	25.00%
Financial Rates:		
Operating Capital Interest Rate	percent	7.50%
Land Interest Rate	percent	7.00%
Equipment Interest Rate	percent	7.50%
Real Interest Rate	percent	3.00%
Land Taxes	96.00 /acre (full value)	0.15
Personal Property Tax Rate - NR - R	\$/1,000 (Assess Value)	25.05 18.64
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	1.00
Field Crop-Equipment & General	\$/labor hour	0.50
Management Rate	percent	2.90%

BUDGET AREA..... ARCH-HURLEY CONSERVANCY DISTRICT, QUAY COUNTY. Projected 2010.

FARM SIZE.....	640 ACRES
IRRIGATION TYPE..	FLOOD
NUMBER OF CROP	5
ACREAGE SUMMARY:	
	LAND USE (ACRES)
ALFALFA ESTABLISHMENT	17.00 *
ALFALFA	100.00
WHEAT	127.50
APR	0.00
FLEX IN GRAIN SORGHUM	22.50
GRAIN SORGHUM	120.00
APR	7.50
FLEX IN GRAIN SORGHUM	22.50
BERMUDA PASTURE	100.00
JOSE WHEATGRASS ESTAB	13.00 *
JOSE WHEATGRASS	100.00
ROADS, DITCHES, HOMEST	40.00
TOTAL	640.00
ACRE FEET PER ACRE OF WATER RICK	
	1.50

* DOUBLE-CROPPED

TABLE 1a. Overhead cost information for the Arch Hurley Conservancy District, Quay County, 2010.

ITEM	ENTERPRISE	CROP	LIVESTOCK	ENTERPRISE	TOTAL
Electricity (Domestic & Shop)	236.00 per month	2,549	2,549	5,098	
Telephone	118.00 per month	1,274	1,274	2,549	
Accounting & Legal		\$1,667.34	\$185.26	1,853	
Misc. Supplies & Hand Tools		\$2,272.68	\$252.52	2,525	
Vehicles	Crop Livestock				
miles	16,205 8,103 @	0.415 per mile			
		6725.213	3362.607	10,088	
Insurance					
- general liability (non-employee)		1,678	186	1,864	
- fire/theft		\$1,316.88	\$146.32	1,463	
Property Taxes					
- non-farm land		450	50	500	
- other than land & machinery		\$0.00	\$0.00	0	
Building repairs and maintenance		\$5,409.00	\$601.00	6,010	
Dues, fees, publications		\$1,274.40	\$141.60	1,416	
Farmstead Equipment		\$382.32	\$42.48	425	
Total		24,999	8,791	33,790	
Total per planted acre		39.06			
Total per mature cow			34.89		
Total per animal unit			25.10		

TABLE 2a. Equipment summary for a 640 acre flood irrigated farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.

EQUIPMENT		VARIABLE COSTS						FIXED COSTS		
ITEM & SIZE	ANNUAL HOURS OF USE	NUMBER	TOTAL VALUE	FUEL AND LUBRICANT	FUEL,LUBE PER HR	REPAIR PER HR	DEPRECIATION	TAXES	TOTAL PER HOUR	
TRACTOR 70 HP	255.97	1	6	0	736.26	0	2.8764	1.00	92.21	0.36
TRACTOR 165 HP	353.37	1	31475	4148.66981	2367.35	11.7403	6.69936	4652.33	304.26	14.03
TRUCK 2 TON	55.67	1	22000	481.629005	857.32	8.6515	15.4	4400.00	191.84	82.48
COMBINE 95 HP	55.67	1	1200	416.85696	97.70	7.488	1.755	337.50	58.86	7.12
GRAIN HEAD 18 FT	55.67	1	14410		139.56		2.5069	1519.33	99.36	29.08
SWATHER 14 FT	64.00	1	4300	311.5008	204.16	4.8672	3.19	1450.00	126.44	24.63
BALER, PTO 2-WIRE	84.00	1	1500		109.96		1.309	385.00	33.57	4.98
BALE WAGON, PTO	80.00	1	1850		332.80		4.16	800.00	69.76	10.87
PLANTER 6-ROW	28.05	1	4250		169.28		6.035	850.00	37.06	31.62
CHISEL 9-PT	49.58	1	1350		42.83		0.864	180.00	11.77	3.87
ROLLING CULT 6-ROW	21.45	1	3000		50.19		2.34	400.00	26.16	19.87
FLOAT 12 FT	62.80	1	500		9.04		0.144	53.33	3.49	0.90
DISC 14 FT	93.29	1	3000		167.92		1.8	400.00	26.16	4.57
DRILL 13 FT	29.79	1	2150		90.95		3.053	430.00	18.75	15.06
HARROW 21 FT	46.55	1	450		5.45		0.117	60.00	3.92	1.37
LISTER 6-ROW	39.66	1	2150		57.98		1.462	286.67	18.75	7.70
SPRAYER (MTD) 4-ROW	28.05	1	1400		55.76		1.988	186.67	12.21	7.09
ROD WEEDER 6-ROW	13.20	1	625		7.10		0.5375	83.33	5.45	6.73
DITCHER	31.53	1	1250		7.88		0.25	166.67	10.90	5.63
FERT SPREADER	31.53	1	2300		91.36		2.898	306.67	20.06	10.36
			105,950	6,589	5,601			17,653	1,171	

Table 3a. Livestock Production Parameters

NUMBER OF COWS	252
COWS PER BULL	30
NUMBER OF HORSES	1
REPLACEMENT RATE (%)	0.1
CALF DEATH LOSS (%)	0.03
YEARLING DEATH LOSS (%)	0.0125
COW DEATH LOSS (%)	0.01
BULL DEATH LOSS (%)	0
CALF CROP (%)	0.925
PRODUCTIVE LIFE OF BULLS (Y)	5
PERCENT SOLD AS YEARLINGS:	
HEIFERS	1
STEERS	1

Table 3b. Forage Sources for Livestock

	ACRES	AUMS/ACRE	GRAZING MONTHS	AU/MONTH	AUMS PROVIDED
JOSE WHEATGRASS	100	14	7	200	1400
BERMUDA PASTURE	100	10	4	250	1000
ALFALFA AFTERMATH	100	4	3	133.33333	400
WHEAT	128	4	4.5	113.77778	512
ASCS DIVERTED	7.5	8.3	6.5	9.5769231	62.25
GRAIN SORGHUM	165	4	5	132	660
MIXED HAY			69 ton	14.375	172.5
TOTAL	600.5			853.06303	4206.75

Value of Land, Buildings and Improvements	0
Machinery and Equipment	0
Cattle	0
Appreciation/Depreciation Rate (%)	0

Table 3a. Livestock Production Parameters

NUMBER OF COWS	252
COWS PER BULL	30
NUMBER OF HORSES	1
REPLACEMENT RATE (%)	0.1
CALF DEATH LOSS (%)	0.03
YEARLING DEATH LOSS (%)	0.0125
COW DEATH LOSS (%)	0.01
BULL DEATH LOSS (%)	0
CALF CROP (%)	0.925
PRODUCTIVE LIFE OF BULLS (YEAR)	5
PERCENT SOLD AS YEARLINGS:	
HEIFERS	1
STEERS	1

Table 3b. Forage Sources for Livestock

	ACRES	AUMS/ ACRE	GRAZING MONTHS	AU/ MONTH	AUMS PROVIDED
JOSE WHEATGRASS	100	14.00	7	200	1,400
BERMUDA PASTURE	100	10	4	250	1000
ALFALFA AFTERMATH	100	4	3	133.33333	400
WHEAT	128	4	4.5	113.77778	512
ASCS DIVERTED	7.5	8.3	6.5	9.5769231	62.25
GRAIN SORGHUM	165	4	5	132	660
PURCHASED HAY		69 ton		14.375	172.5
TOTAL	601			853	4,207

Value of Land, Buildings and Improvements	0
Machinery and Equipment	0
Cattle	0
Appreciation/Depreciation Rate (%)..	0

Table 3c. STOCK COUNT CHART CALVES WERE BORN IN: MARCH

SEASON	BULLS 1.4	REPLACEMENT		YEARLING		STEERS CALVES 0.5	HEIFER CALVES 0.5	HORSES	TOTAL AUMs REQUIRED 1.25
		COWS 1	HEIFERS 0.7	STEERS 0.7	HEIFERS 0.7				
JANUARY	9.2333333	252				124	124	1	390.17667
FEBUARY	9.2333333	252				124	124	1	390.17667
MARCH	9.2333333	252	25	124	99			1	439.77667
APRIL	9.2333333	252	25					1	283.67667
MAY	9.2333333	252	25					1	283.67667
JUNE	9.2333333	252	25					1	283.67667
JULY	9.2333333	252	25					1	283.67667
AUGUST	9.2333333	252	25					1	283.67667
SEPTEMBER	9.2333333	252				128	128	1	394.17667
OCTOBER	9.2333333	252				124	124	1	390.17667
NOVEMBER	9.2333333	252				124	124	1	390.17667
DECEMBER	9.2333333	252				124	124	1	390.17667
									<u>4,203</u>

Table 3d. Forage Balance Chart

	JOSE		ALFALFA		ASCS		GRAIN		TOTAL AUMs REQUIRED	TOTAL AUMs SUPPLIED	OVER OR UNDER
	WHEATGRASS	BERMUDA	AFTERMATH	WHEAT	DIVERTED	SORGHUM	HAY				
JANUARY	0	0	0	156	18	134	82	390.17667	390	0.1766667	
FEBRUARY	0	0	0	156	18	134	82	390.17667	390	0.1766667	
MARCH	130	0	0	156	14.26	132	9.49	439.77667	441.75	1.9733333	
APRIL	267	0	0	0	0	17	0	283.67667	284	0.3233333	
MAY	284	0	0	0	0	0	0	283.67667	284	0.3233333	
JUNE	119	165	0	0	0	0	0	283.67667	284	0.3233333	
JULY	0	284	0	0	0	0	0	283.67667	284	0.3233333	
AUGUST	0	284	0	0	0	0	0	283.67667	284	0.3233333	
SEPTEMBER	127	267	0	0	0	0	0	394.17667	394	0.1766667	
OCTOBER	230	0	160	0	0	0	0	390.17667	390	0.1766667	
NOVEMBER	243	0	135	12	0	0	0	390.17667	390	0.1766667	
DECEMBER	0	0	105	30	12	243	0	390.17667	390	0.1766667	
Total	1400	1000	400	510	62.26	660	173.49	4203.22	4204.75	1.53	

TABLE 4. Alfalfa establishment, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
Planting dates: August 1 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
SEED	3.75	16.00 LBS	60.00					60.00
OAT SEED	0.23	40.00 LBS	9.20					9.20
NITROGEN	0.58	30.00 LBS	17.40					17.40
PHOSPHATE (P205)	0.51	60.00 LBS	30.60					30.60
CANAL WATER	10.00	8.00 AC. IN.	6.67					6.67
SUBTOTAL			123.87					123.87
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.28	3.79	1.13	2.68	8.89
DISC	145 HP	0.14 HR		1.20	3.54	1.19	2.60	8.52
FLOAT	145 HP	0.19 HR		1.62	4.80	1.30	2.83	10.56
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
LISTER	145 HP	0.12 HR		1.03	3.03	0.98	2.60	7.64
DRILL	70 HP	0.18 HR		1.54	1.86	1.07	3.26	7.73
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIG ATE (2X)		1.20 HR		8.70				8.70
SUBTOTAL		2.08 HR		16.22	18.07	6.12	15.08	55.49
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.21 HR		1.77				1.77
EMPLOYEE BENEFITS				1.95				1.95
INSURANCE			0.01					0.01
SUPERVISION AND MANAGEMENT				5.32				5.32
SUBTOTAL		0.21 HR	0.01	9.04				9.04
TOTAL OPERATING EXPENSES		2.29 HR	123.87	25.26	18.07	6.12	15.08	188.39

TABLE 5. Alfalfa hay, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
Harvesting dates: May 25 - October 15 Grazing dates: October 15 - December 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	140.00	3.00 TONS (STACKED)						420.00
GRAZING	8.00	4.00 AUM						32.00
TOTAL								452.00
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P205)	0.51	60.00 LBS	30.60					30.60
WIRE	5.00	25.71 LBS	128.55					128.55
ESTABLISHMENT: Principal		6.00 YEARS					31.40	31.40
: Interest							8.04	8.04
CANAL WATER: Assessment	10.00	1.00 ACRE	10.00					10.00
Water	10.00	24.00 AC. IN.	20.00					20.00
MANURE CREDIT	1.00	4.00 AUM	4.00					4.00
SUBTOTAL			193.15				39.44	232.59
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIGATE (4X)		2.00 HR		14.50				14.50
SUBTOTAL		2.20 HR		16.21	2.07	0.74	1.55	20.58
HARVEST OPERATIONS								
SWATHER (4X)	14 FT SP	0.64 HR		5.47	6.71	2.04	15.71	29.93
BALER (4X)	70 HP	0.84 HR		7.18	8.69	3.52	6.77	26.17
BALE WAGON, PTO (4X)	145 HP	0.80 HR		6.84	20.23	8.69	19.86	55.62
SUBTOTAL		2.28 HR	0.00	19.49	35.63	14.24	42.35	111.72
OVERHEAD EXPENSES								
DOWNTIME		0.41 HR		3.48				3.48
EMPLOYEE BENEFITS				4.28				4.28
INSURANCE			0.01					0.01
LAND TAXES							0.80	0.80
SUPERVISION AND MANAGEMENT				13.31				13.31
OTHER EXPENSES				39.06				39.06
SUBTOTAL		0.41 HR	39.07	21.08			0.80	60.95
TOTAL OPERATING EXPENSES		4.89 HR	232.22	56.78	37.70	14.99	84.14	425.83
NET OPERATING PROFIT								26.17
INTEREST ON OPERATING CAPITAL	(101.43	@	0.08				7.61
INTEREST ON EQUIPMENT INVESTMENT								29.40
RETURN TO LAND AND RISK								-10.84

BUDGET SUMMARY

GROSS RETURN		452.00	
VARIABLE OPERATING EXPENSES	284.91		
RETURN OVER VARIABLE EXPENSES		167.09	(GROSS MARGIN)
FIXED EXPENSES	84.14		
NET FARM INCOME		82.95	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	56.78		
NET OPERATING PROFIT		26.17	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	37.01		
RETURN TO LAND AND RISK		-10.84	

TABLE 6. Wheat, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
 Planting dates: August 15 - September 15
 Harvesting dates: June 15 - July 10
 Grazing dates: November 1 - March 15

ITEM	PRICE	YIELD	BASE	TOTAL
GROSS RETURNS				
WHEAT	6.00	25.00 BUSHEL		150.00
DIRECT PAYMENT	0.52	25.00 BUSHEL	0.85	11.05
COUNTER CYCLICAL PAYME	0.00			0.00
GRAZING	12.00	4.00 AUM		48.00
TOTAL				209.05

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
SEED	0.26	60.00 LBS	15.60	15.60
NITROGEN (N)	0.58	80.00 LBS	46.40	46.40
PHOSPHATE (P205)	0.51	20.00 LBS	10.20	10.20
HERBICIDE	15.07	1.00 ACRE	15.07	15.07
CANAL WATER: Assessment	10.00	1.00 ACRE	10.00	10.00
Water	10.00	16.00 AC. IN.	13.33	13.33
MANURE CREDIT	1.00	4.00 AUM	4.00	4.00
CROP INSURANCE	0.39		0.39	0.39
SUBTOTAL			114.99	114.99

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.28	3.79	1.13	2.68	8.89
DISC (2X)	145 HP	0.28 HR		2.39	7.08	2.38	5.19	17.05
FLOAT	145 HP	0.19 HR		1.62	4.80	1.30	2.83	10.56
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
PRE-IRRIGATE		0.75 HR		5.44				5.44
LISTER	145 HP	0.12 HR		1.03	3.03	0.98	2.60	7.64
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64
DRILL	70 HP	0.18 HR		1.54	1.86	1.07	3.26	7.73
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIGATE (3X)		1.50 HR		10.88				10.88
SUBTOTAL		3.37 HR	0.00	25.89	22.64	7.61	18.12	74.26

HARVEST OPERATIONS								
COMBINE	18 FT	0.19 HR	0.00	1.62	3.06	0.81	6.85	12.35
HAUL	2 TON	0.19 HR	0.00	1.62	3.54	2.93	15.64	23.73
SUBTOTAL		0.38 HR	0.00	3.25	6.60	3.74	22.50	36.09

OVERHEAD EXPENSES								
DOWNTIME		0.36 HR		3.10				3.10
EMPLOYEE BENEFITS				3.50				3.50
INSURANCE			0.01					0.01
LAND TAXES							0.80	0.80
SUPERVISION AND MANAGEMENT				6.22				6.22
OTHER EXPENSES				39.06				39.06
SUBTOTAL		0.36 HR	39.07	12.81			0.80	52.69

TOTAL OPERATING EXPENSES		4.11 HR	154.06	41.95	29.25	11.34	41.42	278.02
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NET OPERATING PROFIT								-68.97
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INTEREST ON OPERATING CAPITAL	(65.92	@	0.08)			4.94
INTEREST ON EQUIPMENT INVESTMENT								19.96
ASCS ACR (SET-ASIDE)	(0.10	@	460.79)			46.08

RETURN TO LAND AND RISK								-139.96
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BUDGET SUMMARY

GROSS RETURN		209.05		
VARIABLE OPERATING EXPENSES	194.65			
RETURN OVER VARIABLE EXPENSES		14.40	(GROSS MARGIN)	
FIXED EXPENSES	41.42			
NET FARM INCOME		-27.02	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	41.95			
NET OPERATING PROFIT		-68.97	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	70.99			
RETURN TO LAND AND RISK		-139.96		

TABLE 7. Grain sorghum, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
 Planting dates: May 15 - July 1
 Harvesting dates: October 15 - December 15
 Grazing dates: November 1 - March 30

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
GRAIN SORGHUM	7.70	27.00 CWT	207.90
DIRECT PAYMENT	0.50	27.00 CWT	13.50
COUNTER CYCLICAL PAYME	0.00	0.00 CWT	0.00
GRAZING	8.00	4.00 AUM	32.00
TOTAL			253.40

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
SEED	2.10	7.00 LBS	14.70	14.70
NITROGEN (N)	0.58	80.00 LBS	46.40	46.40
PHOSPHATE (P205)	0.51	20.00 LBS	10.20	10.20
HERBICIDE	15.97	1.00 ACRE	15.97	15.97
CANAL WATER: Assessment	10.00	1.00 ACRE	10.00	10.00
Water	10.00	16.00 AC. IN.	13.33	13.33
MANURE CREDIT	1.00	4.00 AUM	4.00	4.00
CROP INSURANCE	0.30		0.30	0.30
SUBTOTAL			114.91	114.91

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.28	3.79	1.13	2.68	8.89
DISC	145 HP	0.14 HR		1.20	3.54	1.19	2.60	8.52
FLOAT	145 HP	0.19 HR		1.62	4.80	1.30	2.83	10.56
DISC & SPRAY	145 HP	0.17 HR		1.45	4.30	1.78	4.36	11.89
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
LISTER	145 HP	0.12 HR		1.03	3.03	0.98	2.60	7.64
PRE-IRRIGATE		0.75 HR		5.44				5.44
ROD WEED	70 HP	0.08 HR		0.68	0.83	0.27	0.78	2.57
PLANTER	145 HP	0.17 HR		1.45	4.30	2.16	7.74	15.66
ROLLING CULT	70 HP	0.13 HR		1.11	1.35	0.68	2.98	6.11
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIGATE (2X)		1.00 HR		7.25				7.25
SUBTOTAL		3.00 HR	0.00	23.38	26.98	9.95	27.68	87.98

HARVEST OPERATIONS

COMBINE	18 FT	0.19 HR		1.62	3.06	0.81	6.85	12.35
HAUL	2 TON	0.19 HR		1.62	3.54	2.93	15.64	23.73
SUBTOTAL		0.38 HR	0.00	3.25	6.60	3.74	22.50	36.09

OVERHEAD EXPENSES

DOWNTIME		0.40 HR		3.38				3.38
EMPLOYEE BENEFITS				3.19				3.19
INSURANCE			0.01					0.01
LAND TAXES							0.80	0.80
SUPERVISION AND MANAGMENT				7.53				7.53
OTHER EXPENSES			39.06					39.06
SUBTOTAL		0.40 HR	39.07	14.10			0.80	53.97

TOTAL OPERATING EXPENSES		3.78 HR	153.98	40.72	33.58	13.68	50.98	292.94
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NET OPERATING PROFIT								-39.54
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INTEREST ON OPERATING CAPITAL	(67.55	@	0.08)			5.07
INTEREST ON EQUIPMENT INVESTMENT								24.47
ASCS ACR (SET-ASIDE)	(0.10	@	460.79)			46.08

RETURN TO LAND AND RISK								-115.16
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BUDGET SUMMARY

GROSS RETURN		253.40		
VARIABLE OPERATING EXPENSES	201.25			
RETURN OVER VARIABLE EXPENSES		52.15	(GROSS MARGIN)	
FIXED EXPENSES	50.98			
NET FARM INCOME		1.18	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	40.72			
NET OPERATING PROFIT		-39.54	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	75.61			
RETURN TO LAND AND RISK		-115.16		

TABLE 8. Bermudagrass, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
Harvesting dates: June 1 - October 1

ITEM	PRICE	YIELD						TOTAL	
GROSS RETURNS									
BERMUDAGRASS	16.00	10.00	AUM					160.00	
TOTAL								<u>160.00</u>	
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS				TOTAL	
FERTILIZER									
(16-4-12-12)	0.21	235.00	LBS	49.35				49.35	
CANAL WATER: Assessment	10.00	1.00	ACRE	10.00				10.00	
Water	10.00	18.00	AC. IN.	15.00				15.00	
MANURE CREDIT	1.00	10.00	AUM	10.00				10.00	
SUBTOTAL				<u>84.35</u>				<u>84.35</u>	
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL	
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64	
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91	
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54	
IRRIGATE (3X)		1.50 HR		10.88				10.88	
SUBTOTAL		1.70 HR		12.59	2.07	0.74	1.55	16.95	
OVERHEAD EXPENSES									
DOWNTIME		0.05 HR		0.43				0.43	
EMPLOYEE BENEFITS				1.51				1.51	
INSURANCE			0.00					0.00	
LAND TAXES							0.80	0.80	
SUPERVISION AND MANAGEMENT				4.76				4.76	
OTHER EXPENSES				39.06				39.06	
		0.05 HR		39.06	6.69		0.80	46.56	
TOTAL OPERATING EXPENSES		1.75 HR		123.41	19.28	2.07	0.74	2.36	147.86
NET OPERATING PROFIT								12.14	
INTEREST ON OPERATING CAPITAL		(42.88	@	0.08)		3.22	
INTEREST ON EQUIPMENT INVESTMENT								1.11	
RETURN TO LAND AND RISK								<u>7.80</u>	

BUDGET SUMMARY

GROSS RETURN		160.00	
VARIABLE OPERATING EXPENSES	126.23		
RETURN OVER VARIABLE EXPENSES		33.77	(GROSS MARGIN)
FIXED EXPENSES	2.36		
NET FARM INCOME		31.41	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	19.28		
NET OPERATING PROFIT		12.14	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	4.33		
RETURN TO LAND AND RISK		7.80	

TABLE 9. Jose Wheatgrass establishment, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
Planting dates: August 15 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
SEED	0.00	15.00 LBS		0.00				0.00
NITROGEN (N)	0.58	30.00 LBS		17.40				17.40
PHOSPHATE (P205)	0.51	60.00 LBS		30.60				30.60
CANAL WATER	10.00	8.00 AC. IN.		6.67				6.67
SUBTOTAL				54.67				54.67
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.28	3.79	1.13	2.68	8.89
DISC	145 HP	0.14 HR		1.20	3.54	1.19	2.60	8.52
FLOAT	145 HP	0.19 HR		1.62	4.80	1.30	2.83	10.56
LISTER	145 HP	0.12 HR		1.03	3.03	0.98	2.60	7.64
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64
DRILL	70 HP	0.18 HR		1.54	1.86	1.07	3.26	7.73
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIGATE (2X)		1.00 HR		7.25				7.25
SUBTOTAL		1.98 HR		15.63	19.10	6.42	15.52	56.67
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.23 HR		1.99				1.99
EMPLOYEE BENEFITS				0.45				0.45
INSURANCE			0.00					0.00
SUPERVISION AND MANAGEMENT				4.56				4.56
SUBTOTAL		0.23 HR	0.00	7.00				7.00
<u>TOTAL OPERATING EXPENSES</u>								
		2.21 HR	54.67	22.63	19.10	6.42	15.52	118.34

TABLE 10. Jose Wheatgrass, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.
Harvesting dates: March 1 - June 30 & September 1 - December 1

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
JOSE WHEATGRASS	12.00	14.00	AUM OF CRAZING					168.00
TOTAL								168.00
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
FERTILIZER (16-4-12-12)	0.21	235.00 LBS	49.35					49.35
ESTABLISHMENT: Principal		15.00 YEARS					7.89	7.89
: Interest							4.79	4.79
CANAL WATER: Assessment	10.00	1.00 ACRE	10.00					10.00
Water	10.00	24.00 AC. IN.	20.00					20.00
MANURE CREDIT	1.00	14.00 AUM	14.00					14.00
SUBTOTAL			93.35				12.68	106.03
PREHARVEST OPERATIONS								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64
FERT SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
DITCHER	70 HP	0.05 HR		0.43	0.52	0.16	0.44	1.54
IRRIGATE (4X)		2.00 HR		14.50				14.50
SUBTOTAL		2.20 HR		16.21	2.07	0.74	1.55	20.58
OVERHEAD EXPENSES								
DOWNTIME		0.04 HR		0.32				0.32
EMPLOYEE BENEFITS				0.47				0.47
INSURANCE			0.01					0.01
LAND TAXES							0.80	0.80
SUPERVISION AND MANAGEMENT				6.87				6.87
OTHER EXPENSES				39.06				39.06
SUBTOTAL		0.04 HR		39.07	7.67		0.80	47.53
TOTAL OPERATING EXPENSES		2.24 HR		132.42	23.88	2.07	0.74	174.14
NET OPERATING PROFIT								-6.14
INTEREST ON OPERATING CAPITAL	(47.38	@	0.08)			3.55
INTEREST ON EQUIPMENT INVESTMENT								1.11
RETURN TO LAND AND RISK								-10.81

BUDGET SUMMARY

GROSS RETURN		168.00	
VARIABLE OPERATING EXPENSES	135.23		
RETURN OVER VARIABLE EXPENSES		32.77	(GROSS MARGIN)
FIXED EXPENSES	15.04		
NET FARM INCOME		17.73	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	23.88		
NET OPERATING PROFIT		-6.14	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	4.67		
RETURN TO LAND AND RISK		-10.81	

TABLE 11. ASCS diverted land, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County. Projected 2010.

Planting dates: August 15 - September 15

Harvesting dates: (with ASCS) November 1 - April 15

Harvesting dates: (without ASCS) November 1 - May 30

ITEM	PRICE	YIELD	TOTAL
GROSS RETURNS			
ASCS DIVERTED (WHEAT)	12.00	8.30 AUM	99.62
TOTAL			99.62

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
SEED	0.26	60.00 LBS	15.60	15.60
NITROGEN (N)	0.58	80.00 LBS	46.40	46.40
PHOSPHATE (P205)	0.51	20.00 LBS	10.20	10.20
CANAL WATER: Assessment	10.00	1.00 ACRE	10.00	10.00
Water	10.00	8.00 AC. IN.	6.67	6.67
MANURE	1.00	8.30 AUM	8.30	8.30
SUBTOTAL			97.17	97.17

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT PURCHASED RATE	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL	
CHISEL	126 HP	0.15 HR		1.28	3.79	1.13	2.68	8.89
DISC (2X)	126 HP	0.28 HR		2.39	7.08	2.38	5.19	17.05
FLOAT	126 HP	0.19 HR		1.62	4.80	1.30	2.83	10.56
FERT. SPREADER	70 HP	0.05 HR		0.43	0.52	0.29	0.67	1.91
PRE-IRRIGATE		0.75 HR		5.44				5.44
LISTER	126 HP	0.12 HR		1.03	3.03	0.98	2.60	7.64
HARROW	70 HP	0.10 HR		0.86	1.03	0.30	0.45	2.64
DRILL	70 HP	0.18 HR		1.54	1.86	1.07	3.26	7.73
DITCHER	70 HP	0.05 HR		0.43	1.55	0.47	1.31	3.76
IRRIGATE (1X)		0.50 HR		3.63				3.63
SUBTOTAL		2.37 HR	0.00	18.64	23.68	7.92	18.99	69.23

OVERHEAD EXPENSES

DOWNTIME	0.27 HR		2.29				2.29
EMPLOYEE BENEFITS			372.77				372.77
INSURANCE		0.01					0.01
LAND TAXES						0.80	0.80
SUPERVISION AND MANAGEMENT			5.91				5.91
OTHER EXPENSES							0.00
SUBTOTAL	0.27 HR	0.01	380.97			0.80	381.77

TOTAL OPERATING EXPENSES 2.64 HR 97.17 399.61 23.68 7.92 19.79 548.17

NET OPERATING PROFIT -448.55

INTEREST ON OPERATING CAPITAL (56.48 @ 0.08) 4.24

INTEREST ON EQUIPMENT INVESTMENT 8.00

RETURN TO LAND AND RISK -460.79

BUDGET SUMMARY

GROSS RETURN	99.62	
VARIABLE OPERATING EXPENSES	128.77	
RETURN OVER VARIABLE EXPENSES	-29.16	(GROSS MARGIN)
FIXED EXPENSES	19.79	
NET FARM INCOME	-48.95	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	399.61	
NET OPERATING PROFIT	-448.55	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	12.24	
RETURN TO LAND AND RISK	-460.79	

Table 12. Livestock Enterprise, cost and returns for a 640 acre farm with livestock as the primary enterprise, with above average management, Arch Hurley Conservancy District, Quay County, Projected 2010.

GROSS RETURNS			Sale	Total	Guideline	Guideline
NUMBER		\$/CWT	Weight (CWT)	(\$)	Value (\$/Cow)	Value (\$/AU)
97	YEARLING HEIFERS	89.00	7.35	63,452.55	251.80	181.15
122	YEARLING STEERS	98.00	7.50	89,670.00	355.83	256.00
0	HEIFER CALVES	108.00	4.25	0.00	0.00	0.00
0	STEER CALVES	114.00	4.50	0.00	0.00	0.00
2	BULLS	45.00	16.50	1,485.00	5.89	4.24
23	CULL COWS	42.00	10.00	9,660.00	38.33	27.58
4,188	MANURE	0.13	8.00	4,188.22	16.62	11.96
TOTAL				168,455.77	668.48	480.93

NUMBER	PURCHASED INPUTS	Unit	\$/Unit	Total	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
FORAGE:						
1400	JOSE WHEATGRASS	AUM	12.00	16,800.00	66.67	47.96
1000	BERMUDAGRASS	AUM	10.00	10,000.00	39.68	28.55
660	GRAIN SORGHUM	AUM	8.00	5,280.00	20.95	15.07
510	WHEAT	AUM	12.00	6,120.00	24.29	17.47
62	ASCS DIVERSION	AUM	12.00	747.12	2.96	2.13
400	ALFALFA AFTERMATH	AUM	8.00	3,200.00	12.70	9.14
SUBTOTAL				42,147	167.25	120.33

LABOR, FEED, LIVESTOCK:		Unit	\$/Unit	Total	(\$/Cow)	(\$/AU)
5	PROTEIN SUPPLEMENT	TON	250	1,250	4.96	3.57
2	SALT & MINERALS	TON	210.00	420.00	1.67	1.20
69	HAY	TON	100.00	6,900.00	27.38	19.70
0	GRAIN	TON	200.00	0.00	0.00	0.00
0	GRAIN CUBES	TON	200.00	0.00	0.00	0.00
	FUEL AND REPAIRS	ANNUAL		0.00	0.00	0.00
	VETERINARY AND MEDICINE	ANNUAL		1,953.00	7.75	5.58
2	BULLS PURCHASED	HEAD	1,300.00	2,600.00	10.32	7.42
	LIVESTOCK TAXES	ANNUAL		1,675.28	6.65	4.78
	MAINTENANCE	ANNUAL		0.00	0.00	0.00
277	PREGNANCY TEST	HEAD	2.00	554.00	2.00	1.58
395	LABOR	HOURLY	5.00	1,975.00	7.84	5.64
244	BEEF CHECKOFF PROGRAM	HEAD	1.00	244.00	0.97	0.70
	MISCELLANEOUS	ANNUAL		0.00	0.00	0.00
SUBTOTAL				17,571	69.53	50.17

OVERHEAD EXPENSES						
	EMPLOYEE BENEFITS			0.00	0.00	0.00
	INSURANCE			0.00	0.00	0.00
	DEPRECIATION			1,440.00	5.71	4.11
	SUPERVISION AND MANAGEMENT			4,655.55	18.47	13.29
	OTHER EXPENSES			5,393.03	21.40	15.40
SUBTOTAL				11,489	45.59	32.80

TOTAL OPERATING EXPENSES 71,206.97 282.57 203.29

NET OPERATING PROFIT 97,249 385.91 277.64

CAPITAL COST						
	INTEREST ON OPERATING CAPITAL			1,958.18	7.77	5.59
	INTEREST ON MACHINERY AND IMPROVEMENTS			2,242.00	8.90	6.40
	INTEREST ON LIVESTOCK			29,752.70	118.07	84.94
TOTAL CAPITAL COST				33,952.88	134.73	96.93

RETURN TO RISK 63,296 251.17 180.71

BUDGET SUMMARY

GROSS RETURN		168,456
VARIABLE OPERATING EXPENSES	59,718.40	
RETURN OVER VARIABLE EXPENSES		108,737
FIXED EXPENSES	6,833	
NET FARM INCOME		101,904
LABOR AND MANAGEMENT COST	4,656	
NET OPERATING PROFIT		97,249
CAPITAL COST	33,952.88	
RETURN TO LAND AND RISK		63,296

Table 13. Summary of per acre costs and returns for an above-average managed farm, Arch Hurley
 Conservancy District, Quay County. Projected 2010.

	ASCD DIVERTED	ALFALFA EST.	ALFALFA HAY	WHEAT SORGHUM -----FLOOD-----	GRAIN BERMUDA PASTURE	JOSE EST.	WHEAT PASTURE	GRASS PASTURE
PRIMARY YIELD	8.30		3.00	25.00	27.00	10.00		14.00
PRIMARY PRICE	12.00		140.00	6.00	7.70	16.00		12.00
GOVERNMENT PAYMENTS	0.00		0.00	11.05	13.50	0.00		0.00
SECOND INCOME	0.00		32.00	48.00	32.00	0.00		0.00
GROSS RETURN	99.62		452.00	209.05	253.40	160.00		168.00
CASH OPERATING EXPENSES								
SEED	15.60	69.20		15.60	14.70		0.00	
FERTILIZER	64.90	48.00	34.60	60.60	60.60	59.35	48.00	63.35
CHEMICALS				15.07	15.97			
CROP INSURANCE				0.39	0.30			
OTHER PURCHASED INPUTS			128.55					
CANAL WATER	16.67	6.67	30.00	23.33	23.33	25.00	6.67	30.00
FUEL, OIL & LUBRICANTS-EQUIPMENT	23.68	18.07	37.70	29.25	33.58	2.07	19.10	2.07
FUEL-IRRIGATION								
REPAIRS	7.92	6.12	14.99	11.34	13.68	0.74	6.42	0.74
CUSTOM CHARGES			0.00	0.00	0.00			
LAND TAXES			0.80	0.80	0.80	0.80		0.80
OTHER EXPENSES	0.01	0.01	39.07	39.07	39.07	39.06	0.00	39.07
TOTAL CASH EXPENSES	128.77	148.06	285.71	195.45	202.05	127.03	80.19	136.03
RETURN OVER CASH EXPENSES	-29.16	-148.06	166.29	13.60	51.35	32.97	-80.19	31.97
FIXED EXPENSES	19.79	15.08	83.34	40.62	50.17	1.55	15.52	14.24
TOTAL EXPENSES	148.56	163.13	369.05	236.07	252.22	128.59	95.71	150.27
NET FARM INCOME	-48.95	-163.13	82.95	-27.02	1.18	31.41	-95.71	17.73
LABOR AND MANAGEMENT COSTS	399.61	25.26	56.78	41.95	40.72	19.28	22.63	23.88
NET OPERATING PROFIT	-448.55	-188.39	26.17	-68.97	-39.54	12.14	-118.34	-6.14
CAPITAL COSTS								
INTEREST ON OPERATING CAPITAL	4.24		7.61	4.94	5.07	3.22		3.55
INTEREST ON EQUIPMENT INVESTMENT	8.00		29.40	19.96	24.47	1.11		1.11
ASCS ACR (SET ASIDE)				46.08	46.08			
TOTAL CAPITAL COSTS	12.24	0.00	37.01	70.99	75.61	4.33	0.00	4.67
RETURN TO LAND AND RISK	-460.79	-188.39	-10.84	-139.96	-115.16	7.80	-118.34	-10.81

Table 14. Whole Farm Summary, Arch Hurley Conservancy District,
Quay County. Projected 2010.

GROSS RETURNS			
ALFALFA HAY	100.00 ACRES		
CROP		39,240.00	
GRAZING		3,200	
WHEAT	128.00 ACRES		
CROP		19,200.00	
GRAZING		6,144.00	
DIRECT PAYMENT		1,414.40	
COUNTER CYCLICAL PAYMENT		0.00	
GRAIN SORGHUM	165.00 ACRES		
CROP		34,303.50	
GRAZING		5,280.00	
DIRECT PAYMENT		1,620.00	
COUNTER CYCLICAL PAYMENT		0.00	
BERMUDAGRASS	100.00 ACRES		
CROP		16,000.00	
JOSE WHEATGRASS	100.00 ACRES		
CROP		16,800.00	
COUNTER CYCLIC	7.50 ACRES	747	
LIVESTOCK		168,455.77	
GROSS RETURN			<u>312,405</u>
CASH OPERATING EXPENSES			
FORAGE		42,147	
FEED AND LIVESTOCK		15,596	
SEED		5,715.70	
FERTILIZER		35,412.56	
CHEMICALS		4,564.17	
CROP INSURANCE		100.00	
OTHER PURCHASED INPUTS		12,855.00	
CANAL WATER		15,661.67	
FUEL, OIL & LUBRICANTS-EQUIPMENT		14,202.29	
FUEL-IRRIGATION		0.00	
REPAIRS		5,604.08	
CUSTOM CHARGES		0.00	
LAND TAXES		475.35	
OTHER EXPENSES		28,560.87	
TOTAL CASH EXPENSES			<u>180,895</u>
RETURN OVER CASH EXPENSES			131,509.70
FIXED EXPENSES		21,508.35	
TOTAL EXPENSES			<u>202,403.44</u>
NET FARM INCOME			110,001.35
LABOR AND MANAGEMENT COSTS		9,059.74	
NET OPERATING PROFIT			100,941.61
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL		2,938.20	
INTEREST ON EQUIPMENT INVESTMENT		9,815.98	
INTEREST ON LIVESTOCK ENTERPRISE		33,952.88	
TOTAL CAPITAL COSTS			<u>46,707</u>
RETURN TO LAND AND RISK			<u>54,234.55</u>

LAND VALUE	TOTAL INVESTMENT	RETURN TO RISK*	RETURN ON INVESTMENT**
200.00 /ACRE	560,891.33	50,394.55	0.18
300.00 /ACRE	624,891.33	48,474.55	0.16
400.00 /ACRE	688,891.33	46,554.55	0.15
500.00 /ACRE	752,891.33	44,634.55	0.13
600.00 /ACRE	816,891.33	42,714.55	0.12
700.00 /ACRE	880,891.33	40,794.55	0.11
800.00 /ACRE	944,891.33	38,874.55	0.11
900.00 /ACRE	1,008,891.33	36,954.55	0.10
1,000.00 /ACRE	1,072,891.33	35,034.55	0.09
1,100.00 /ACRE	1,136,891.33	33,114.55	0.09
1,200.00 /ACRE	1,200,891.33	31,194.55	0.08

* RETURN TO LAND AND RISK MINUS (INTEREST RATE TIMES LAND VALUE TIMES ACREAGE)
 ** NET OPERATING PROFIT DIVIDED BY (MACHINERY AND EQUIPMENT VALUE PLUS LIVESTOCK AND LIVESTOCK RESOURCES PLUS LAND VALUE)