

TABLE 1 Basic cost information for the Arch Hurley Conservancy District, Quay County, 2006.

Item		
Labor We Rate:		
Equipment Operators	\$/hour	7.45
General and Irrigators	\$/hour	6.65
Purchase Inputs:		
Fertilizer		
Nitrogen (N)	\$/pound	0.40
Phosphate (P205)	\$/pound	0.31
(16-4-12-12)	\$/pound	0.12
Seed:		
Alfalfa	\$/pound	2.88
Wheat	\$/pound	0.24
Grain Sorghum	\$/pound	1.23
Jose Wheatgrass	\$/pound	0.00
Wire	\$/box	2.20
Canal Water		
Assessment	\$/acre	6.00
Water 1 - 18 inches	\$/acre foot	6.00
Energy:		
Diesel	\$/gallon	2.10
Gasoline	\$/gallon	2.00
LP Gas	\$/gallon	1.70
Electricity	\$/KwHr	7.25
Employe Liability Insurance	\$/ \$1,000 wages	0.21
Employe Benefits	percent/wages	20.00%
Labor Dc ntime	percent	0.00%
Financial Rates:		
Operating Capital Interest Rate	percent	0.00%
Land Interest Rate	percent	Amount
Equipment Interest Rate	percent	0.00%
Real Interest Rate	percent	0.00%
Land Taxes	96.00 /acre (full value)	0.15
Personal Property Tax Rate - NR	\$/ \$1,000 (Assesse	28.95
- R	Value)	21.74
Supervision Factors		
Field Crop-Irrigation	\$/labor hour	0.07
Field Crop-Equipment & Gener	\$/labor hour	0.03
Manager t Rate	percent	2.90%

BUDGET AREA..... ARCH-HURLEY CONSERVANCY DISTRICT, QUAY COUNTY, 2006.

FARM SIZE 640 ACRES
IRRIGATION TYPE.. FLOOD
NUMBER OF CROP 5

		WATER USE	
ACREAGE SUMMARY:		LAND USE (ACRES)	AC.IN. TOTAL PER AC AC.IN.
ALFALFA ESTABLISHMENT	17.00 *	8.0	136.0
ALFALFA	100.00	24.0	2,400.0
WHEAT	127.50	16.0	2,040.0
APR	0.00		
FLEX IN GRAIN SORGHUM	22.50	16.0	360.0
GRAIN SORGHUM	120.00	16.0	1,920.0
APR	7.50		
FLEX IN GRAIN SORGHUM	22.50	16.0	360.0
BERMUDA PASTURE	100.00	18.0	1,800.0
JOSE WHEATGRASS ESTAE	13.00 *	8.0	104.0
JOSE WHEATGRASS	100.00	24.0	2,400.0
ROADS, DITCHES, HOMEST	40.00		
TOTAL	640.00	#####	
ACRE FEET PER ACRE OF WATER RIG		1.50	

* DOUBLE-CROPPED

TABLE 1a. Overhead cost information for the Arch Hurley Conservancy District, Quay County, 2005.

ITEM	CROP ENTERPRISE		LIVESTOCK ENTERPRISE		TOTAL
Electricity (Domestic & Shop)	206.00 per mont	2,225	2,225		4,450
Telephone	103.00 per mont	1,112	1,112		2,225
Accounting & Legal		\$1,455.39	\$161.71		1,617
Misc. Supplies & Hand Tools		\$1,983.78	\$220.42		2,204
Vehicles	Crop Livestock				
miles	14,145 7,073 @	0.415 per mile	5870.313	2935.157	8,805
Insurance					
- general liability (non-employee)		1,465	163		1,627
- fire/theft		\$1,149.48	\$127.72		1,277
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		\$1,112.40	\$123.60		1,236
Farmstead Equipment		\$333.72	\$37.08		371
Total		22,566	7,757		30,323
Total per planted acre		35.26			
Total per mature cow			30.78		
Total per animal unit			22.14		

TABLE 2a. Equipment summary for a 640 acre flood irrigated farm with above average management, Arch Hurley Conservancy District, Quay County, 2006.

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
IASSED 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 1.25	TOTAL AUMs REQUIRED
		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
									4,203

Table 3d. Forage Balance Chart

	JOSE	ALFALFA	ASCS	GRAIN	TOTAL	TOTAL	OVER			
	WHEATGRASS	BERMUDA AFTERMATH	WHEAT	DIVERTED SORGHUM	HAY	AUMs REQUIRED	AUMs SUPPLIED	OR UNDER		
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, 2006.
Planting dates: August 1 - September 15

ITEM	PRICE	QUANTITY	PURCHASED INPUTS					TOTAL
<u>PURCHASED INPUTS</u>								
SEED	2.88	16.00 LBS	46.08					46.08
OAT SEED	0.23	40.00 LBS	9.20					9.20
NITROGEN	0.40	30.00 LBS	12.00					12.00
PHOSPHATE (P205)	0.31	60.00 LBS	18.60					18.60
CANAL WATER	6.00	8.00 AC. IN.	4.00					4.00
SUBTOTAL			89.88					89.88
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.12	2.84	1.13	2.70	7.80
DISC	145 HP	0.14 HR		1.04	2.66	1.19	2.62	7.51
FLOAT	145 HP	0.19 HR		1.42	3.60	1.30	2.86	9.17
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
LISTER	145 HP	0.12 HR		0.89	2.28	0.98	2.62	6.77
DRILL	70 HP	0.18 HR		1.34	1.40	1.07	3.29	7.10
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIG ATE (2X)		1.20 HR		7.98				7.98
SUBTOTAL		2.08 HR		14.54	13.55	6.12	15.21	49.42
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				290.72				290.72
INSURANCE			0.00					0.00
SUPERVISION AND MANAGEMENT				4.15				4.15
SUBTOTAL		0.00 HR	0.00	294.87				294.87
TOTAL OPERATING EXPENSES		2.08 HR	89.88	309.40	13.55	6.12	15.21	434.17

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, 2006.

Harvesting dates: May 25 - October 15

Grazing dates: October 15 - December 15

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
ALFALFA HAY	130.00	3.00 TONS (STACKED)						390.00
GRAZING	8.00	4.00 AUM						32.00
TOTAL								422.00
PURCHASED INPUTS								
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS				FIXED COST	TOTAL
PHOSPHATE (P205)	0.31	60.00 LBS	18.60					18.60
WIRE	2.20	25.71 LBS	56.56					56.56
ESTABLISHMENT: Principal		6.00 YEARS					72.36	72.36
: Interest							0.00	0.00
CANAL WATER: Assessment	6.00	1.00 ACRE	6.00					6.00
Water	6.00	24.00 AC. IN.	12.00					12.00
MANURE CREDIT	1.00	4.00 AUM	4.00					4.00
SUBTOTAL			97.16				72.36	169.52
PREHARVEST OPERATIONS								
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
HARROW	70 HP	0.10 HR		0.75	0.78	0.30	0.45	2.27
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIGATE (4X)		2.00 HR		13.30				13.30
SUBTOTAL		2.20 HR		14.79	1.55	0.74	1.57	18.66
HARVEST OPERATIONS								
SWATHER (4X)	14 FT SP	0.64 HR		4.77	5.03	2.04	15.90	27.74
BALER (4X)	70 HP	0.84 HR		6.26	6.52	3.52	6.87	23.16
BALE WAGON, PTO (4X)	145 HP	0.80 HR		5.96	15.17	8.69	20.07	49.89
SUBTOTAL		2.28 HR	0.00	16.99	26.72	14.24	42.84	100.79
OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				635.52				635.52
INSURANCE			0.01					0.01
LAND TAXES							0.15	0.15
SUPERVISION AND MANAGEMENT				12.43				12.43
OTHER EXPENSES				35.26				35.26
SUBTOTAL		0.00 HR	35.27	647.95			0.15	683.36
TOTAL OPERATING EXPENSES		4.48 HR	132.43	679.72	28.28	14.99	116.92	972.34
NET OPERATING PROFIT								-550.34
INTEREST ON OPERATING CAPITAL	(52.57	@	0.00				0.00
INTEREST ON EQUIPMENT INVESTMENT								0.00
RETURN TO LAND AND RISK								-550.34

BUDGET SUMMARY

GROSS RETURN		422.00	
VARIABLE OPERATING EXPENSES	175.69		
RETURN OVER VARIABLE EXPENSES		246.31	(GROSS MARGIN)
FIXED EXPENSES	116.92		
NET FARM INCOME		129.39	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	679.72		
NET OPERATING PROFIT		-550.34	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	0.00		
RETURN TO LAND AND RISK		-550.34	

TABLE 6. Wheat, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County, 2006.

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	3.75	25.00 BUSHEL\$		93.75
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				152.80

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
SEED	0.24	60.00 LBS	14.40	14.40
NITROGEN (N)	0.40	80.00 LBS	32.00	32.00
PHOSPHATE (P205)	0.31	20.00 LBS	6.20	6.20
HERBICIDE	15.07	1.00 ACRE	15.07	15.07
CANAL WATER: Assessment	6.00	1.00 ACRE	6.00	6.00
Water	6.00	16.00 AC. IN.	8.00	8.00
MANURE CREDIT	1.00	4.00 AUM	4.00	4.00
CROP INSURANCE	0.39		0.39	0.39
SUBTOTAL			86.06	86.06

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.12	2.84	1.13	2.70	7.80
DISC (2X)	145 HP	0.28 HR		2.09	5.31	2.38	5.24	15.02
FLOAT	145 HP	0.19 HR		1.42	3.60	1.30	2.86	9.17
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
PRE-IRRIGATE		0.75 HR		4.99				4.99
LISTER	145 HP	0.12 HR		0.89	2.28	0.98	2.62	6.77
HARROW	70 HP	0.10 HR		0.75	0.78	0.30	0.45	2.27
DRILL	70 HP	0.18 HR		1.34	1.40	1.07	3.29	7.10
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIGATE (3X)		1.50 HR		9.98				9.98
SUBTOTAL		3.37 HR	0.00	23.31	16.98	7.61	18.29	66.18

HARVEST OPERATIONS

COMBINE	18 FT	0.19 HR	0.00	1.42	2.30	0.81	6.93	11.46
HAUL	2 TON	0.19 HR	0.00	1.42	2.66	2.93	15.74	22.74
SUBTOTAL		0.38 HR	0.00	2.83	4.95	3.74	22.68	34.20

OVERHEAD EXPENSES

DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				522.75				522.75
INSURANCE			0.01					0.01
LAND TAXES							0.15	0.15
SUPERVISION AND MANAGEMENT				4.58				4.58
OTHER EXPENSES				35.26				35.26
SUBTOTAL		0.00 HR	35.26	527.33			0.15	562.74

TOTAL OPERATING EXPENSES		3.75 HR	121.32	553.47	21.94	11.34	41.11	749.18
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NET OPERATING PROFIT								-596.38
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INTEREST ON OPERATING CAPITAL	(49.90	@	0.00				0.00
INTEREST ON EQUIPMENT INVESTMENT								0.00
ASCS ACR (SET-ASIDE)	(0.10	@	41.20				4.12

RETURN TO LAND AND RISK								-600.50
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BUDGET SUMMARY

GROSS RETURN		152.80		
VARIABLE OPERATING EXPENSES	154.60			
RETURN OVER VARIABLE EXPENSES		-1.80	(GROSS MARGIN)	
FIXED EXPENSES	41.11			
NET FARM INCOME		-42.91	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	553.47			
NET OPERATING PROFIT		-596.38	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	4.12			
RETURN TO LAND AND RISK		-600.50		

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, 2006.

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	4.03	27.00 CWT	108.81
DIRECT PAYMENT	0.63	27.00 CWT	16.88
COUNTER CYCLICAL PAYME	0.00	0.00 CWT	0.00
GRAZING	8.00	4.00 AUM	32.00
TOTAL			157.69

PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS	TOTAL
SEED	1.23	7.00 LBS	8.61	8.61
NITROGEN (N)	0.40	80.00 LBS	32.00	32.00
PHOSPHATE (P205)	0.31	20.00 LBS	6.20	6.20
HERBICIDE	15.97	1.00 ACRE	15.97	15.97
CANAL WATER: Assessment	6.00	1.00 ACRE	6.00	6.00
Water	6.00	16.00 AC. IN.	8.00	8.00
MANURE CREDIT	1.00	4.00 AUM	4.00	4.00
CROP INSURANCE	0.30		0.30	0.30
SUBTOTAL			81.09	81.09

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.12	2.84	1.13	2.70	7.80
DISC	145 HP	0.14 HR		1.04	2.66	1.19	2.62	7.51
FLOAT	145 HP	0.19 HR		1.42	3.60	1.30	2.86	9.17
DISC & SPRAY	145 HP	0.17 HR		1.27	3.22	1.78	4.39	10.67
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
LISTER	145 HP	0.12 HR		0.89	2.28	0.98	2.62	6.77
PRE-IRRIGATE		0.75 HR		4.99				4.99
ROD WEED	70 HP	0.08 HR		0.60	0.62	0.27	0.79	2.28
PLANTER	145 HP	0.17 HR		1.27	3.22	2.16	7.80	14.46
ROLLING CULT	70 HP	0.13 HR		0.97	1.01	0.68	3.01	5.67
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIGATE (2X)		1.00 HR		6.65				6.65
SUBTOTAL		3.00 HR	0.00	20.95	20.23	9.95	27.92	79.05

HARVEST OPERATIONS

COMBINE	18 FT	0.19 HR		1.42	2.30	0.81	6.93	11.46
HAUL	2 TON	0.19 HR		1.42	2.66	2.93	15.74	22.74
SUBTOTAL		0.38 HR	0.00	2.83	4.95	3.74	22.68	34.20

OVERHEAD EXPENSES

DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				475.62				475.62
INSURANCE				0.00				0.00
LAND TAXES							0.15	0.15
SUPERVISION AND MANAGMENT				4.74				4.74
OTHER EXPENSES				35.26				35.26
SUBTOTAL		0.00 HR	35.26	480.36			0.15	515.78

TOTAL OPERATING EXPENSES		3.38 HR	116.35	504.14	25.19	13.68	50.75	710.11
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NET OPERATING PROFIT								-552.43
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INTEREST ON OPERATING CAPITAL	(48.81	@	0.00				0.00
INTEREST ON EQUIPMENT INVESTMENT								0.00
ASCS ACR (SET-ASIDE)	(0.10	@	41.20				4.12

RETURN TO LAND AND RISK								-556.55
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BUDGET SUMMARY

GROSS RETURN		157.69		
VARIABLE OPERATING EXPENSES	155.22			
RETURN OVER VARIABLE EXPENSES		2.46	(GROSS MARGIN)	
FIXED EXPENSES	50.75			
NET FARM INCOME		-48.28	(RETURN TO CAPITAL, LABOR, LAND & RISK)	
LABOR AND MANAGEMENT COST	504.14			
NET OPERATING PROFIT		-552.43	(RETURN TO CAPITAL, LAND & RISK)	
CAPITAL COSTS	4.12			
RETURN TO LAND AND RISK		-556.55		

TABLE 8. Bermudagrass, flood irrigated, budgeted per acre costs and returns for a farm with above average management, Arch Hurley Conservancy District, Quay County, 2006.
Harvesting dates: June 1 - October 1

ITEM	PRICE	YIELD						TOTAL
GROSS RETURNS								
BERMUDAGRASS	14.00	10.00	AUM					140.00
TOTAL								140.00
PURCHASED INPUTS		PRICE	QUANTITY	PURCHASED INPUTS				TOTAL
FERTILIZER								
(16-4-12-12)	0.12	235.00	LBS	28.20				28.20
CANAL WATER: Assessment								
Water	6.00	1.00	ACRE	6.00				6.00
Water								
	6.00	18.00	AC. IN.	9.00				9.00
MANURE CREDIT								
	1.00	10.00	AUM	10.00				10.00
SUBTOTAL				53.20				53.20
PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
HARROW	70 HP	0.10 HR		0.75	0.78	0.30	0.45	2.27
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIGATE (3X)		1.50 HR		9.98				9.98
SUBTOTAL		1.70 HR		11.47	1.55	0.74	1.57	15.34
OVERHEAD EXPENSES								
DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				229.30				229.30
INSURANCE				0.00				0.00
LAND TAXES							0.15	0.15
SUPERVISION AND MANAGEMENT				4.17				4.17
OTHER EXPENSES				35.26				35.26
		0.00 HR		35.26	233.47		0.15	268.88
TOTAL OPERATING EXPENSES		1.70 HR		88.46	244.93	1.55	0.74	337.42
NET OPERATING PROFIT								-197.42
INTEREST ON OPERATING CAPITAL		(27.17 @	0.00)					0.00
INTEREST ON EQUIPMENT INVESTMENT								0.00
RETURN TO LAND AND RISK								-197.42

BUDGET SUMMARY

GROSS RETURN		140.00	
VARIABLE OPERATING EXPENSES	90.76		
RETURN OVER VARIABLE EXPENSES		49.24	(GROSS MARGIN)
FIXED EXPENSES	1.72		
NET FARM INCOME		47.52	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	244.93		
NET OPERATING PROFIT		-197.42	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	0.00		
RETURN TO LAND AND RISK		-197.42	

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, 2006.
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)	0.40	30.00 LBS		12.00				12.00
PHOSPHATE (P205)	0.31	60.00 LBS		18.60				18.60
CANAL WATER	6.00	8.00 AC. IN.		4.00				4.00
SUBTOTAL				34.60				34.60
<u>PREHARVEST OPERATIONS</u>								
	POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	145 HP	0.15 HR		1.12	2.84	1.13	2.70	7.80
DISC	145 HP	0.14 HR		1.04	2.66	1.19	2.62	7.51
FLOAT	145 HP	0.19 HR		1.42	3.60	1.30	2.86	9.17
LISTER	145 HP	0.12 HR		0.89	2.28	0.98	2.62	6.77
HARROW	70 HP	0.10 HR		0.75	0.78	0.30	0.45	2.27
DRILL	70 HP	0.18 HR		1.34	1.40	1.07	3.29	7.10
FERT SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
DITCHER	70 HP	0.05 HR		0.37	0.39	0.16	0.44	1.36
IRRIGATE (2X)		1.00 HR		6.65				6.65
SUBTOTAL		1.98 HR		13.95	14.33	6.42	15.67	50.36
<u>OVERHEAD EXPENSES</u>								
DOWNTIME		0.00 HR		0.00				0.00
EMPLOYEE BENEFITS				0.40				0.40
INSURANCE			0.00					0.00
SUPERVISION AND MANAGEMENT				246.49				246.49
SUBTOTAL		0.00 HR	0.00	246.89				246.90
<u>TOTAL OPERATING EXPENSES</u>								
		1.98 HR	34.60	260.84	14.33	6.42	15.67	331.86

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, 2006.
Harvesting dates: March 1 - June 30 & September 1 - December 1

ITEM	PRICE	YIELD					TOTAL		
GROSS RETURNS									
JOSE WHEATGRASS	12.00	14.00	AUM OF (RAZING				168.00		
TOTAL							168.00		
PURCHASED INPUTS									
PURCHASED INPUTS	PRICE	QUANTITY	PURCHASED INPUTS		FIXED COST		TOTAL		
FERTILIZER (16-4-12-12)	0.12	235.00 LBS	28.20				28.20		
ESTABLISHMENT: Principal		15.00 YEARS			22.12		22.12		
: Interest					0.00		0.00		
CANAL WATER: Assessment	6.00	1.00 ACRE	6.00				6.00		
Water	6.00	24.00 AC. IN.	12.00				12.00		
MANURE CREDIT	1.00	14.00 AUM	14.00				14.00		
SUBTOTAL			60.20		22.12		82.32		
PREHARVEST OPERATIONS									
POWER UNIT	ACCOMPLISHMENT RATE	PURCHASED INPUTS		LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL	
HARROW	70 HP	0.10 HR			0.75	0.78	0.30	0.45	2.27
FERT SPREADER	70 HP	0.05 HR			0.37	0.39	0.29	0.68	1.73
DITCHER	70 HP	0.05 HR			0.37	0.39	0.16	0.44	1.36
IRRIGATE (4X)		2.00 HR			13.30				13.30
SUBTOTAL		2.20 HR			14.79	1.55	0.74	1.57	18.66
OVERHEAD EXPENSES									
DOWNTIME		0.00 HR			0.00			0.00	
EMPLOYEE BENEFITS					0.43			0.43	
INSURANCE			0.00					0.00	
LAND TAXES							0.15	0.15	
SUPERVISION AND MANAGEMENT					487.34			487.34	
OTHER EXPENSES			35.26					35.26	
SUBTOTAL		0.00 HR	35.26		487.77		0.15	523.19	
TOTAL OPERATING EXPENSES		2.20 HR	95.46		502.56	1.55	0.74	23.85	624.17
NET OPERATING PROFIT							-456.17		
INTEREST ON OPERATING CAPITAL	(30.67	@	0.00			0.00		
INTEREST ON EQUIPMENT INVESTMENT							0.00		
RETURN TO LAND AND RISK							-456.17		

BUDGET SUMMARY

GROSS RETURN		168.00	
VARIABLE OPERATING EXPENSES	97.76		
RETURN OVER VARIABLE EXPENSES		70.24	(GROSS MARGIN)
FIXED EXPENSES	23.85		
NET FARM INCOME		46.39	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	502.56		
NET OPERATING PROFIT		-456.17	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	0.00		
RETURN TO LAND AND RISK		-456.17	

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, 2006.

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	0.24	60.00 LBS	14.40	14.40
NITROGEN (N)	0.40	80.00 LBS	32.00	32.00
PHOSPHATE (P205)	0.31	20.00 LBS	6.20	6.20
CANAL WATER: Assessment	6.00	1.00 ACRE	6.00	6.00
Water	6.00	8.00 AC. IN.	4.00	4.00
MANURE	1.00	8.30 AUM	8.30	8.30
SUBTOTAL			70.90	70.90

PREHARVEST OPERATIONS	POWER UNIT	ACCOMPLISHMENT PURCHASED RATE	INPUTS	LABOR	FUEL & OIL	REPAIRS	FIXED COST	TOTAL
CHISEL	126 HP	0.15 HR		1.12	2.84	1.13	2.70	7.80
DISC (2X)	126 HP	0.28 HR		2.09	5.31	2.38	5.24	15.02
FLOAT	126 HP	0.19 HR		1.42	3.60	1.30	2.86	9.17
FERT. SPREADER	70 HP	0.05 HR		0.37	0.39	0.29	0.68	1.73
PRE-IRRIGATE		0.75 HR		4.99				4.99
LISTER	126 HP	0.12 HR		0.89	2.28	0.98	2.62	6.77
HARROW	70 HP	0.10 HR		0.75	0.78	0.30	0.45	2.27
DRILL	70 HP	0.18 HR		1.34	1.40	1.07	3.29	7.10
DITCHER	70 HP	0.05 HR		0.37	1.16	0.47	1.32	3.33
IRRIGATE (1X)		0.50 HR		3.33				3.33
SUBTOTAL		2.37 HR	0.00	16.66	17.76	7.92	19.17	61.50

OVERHEAD EXPENSES

DOWNTIME	0.00 HR		0.00					0.00
EMPLOYEE BENEFITS				3.33				3.33
INSURANCE		0.00						0.00
LAND TAXES							0.15	0.15
SUPERVISION AND MANAGEMENT				4.92				4.92
OTHER EXPENSES								0.00
SUBTOTAL		0.00 HR	0.00	8.26			0.15	8.41

TOTAL OPERATING EXPENSES	2.37 HR	70.90	24.91	17.76	7.92	19.32	140.81
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NET OPERATING PROFIT							-41.20
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INTEREST ON OPERATING CAPITAL	(41.87	@	0.00)			0.00
INTEREST ON EQUIPMENT INVESTMENT							0.00

RETURN TO LAND AND RISK							-41.20
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BUDGET SUMMARY

GROSS RETURN	99.62	
VARIABLE OPERATING EXPENSES	96.58	
RETURN OVER VARIABLE EXPENSES	3.03	(GROSS MARGIN)
FIXED EXPENSES	19.32	
NET FARM INCOME	-16.29	(RETURN TO CAPITAL, LABOR, LAND & RISK)
LABOR AND MANAGEMENT COST	24.91	
NET OPERATING PROFIT	-41.20	(RETURN TO CAPITAL, LAND & RISK)
CAPITAL COSTS	0.00	
RETURN TO LAND AND RISK	-41.20	

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, 2006.

GROSS RETURNS			Sale Weight (CWT)	Total (\$)	Guideline Value (\$/Cow)	Guideline Value (\$/AU)
NUMBER		\$/CWT				
97	YEARLING HEIFERS	92.00	7.35	65,591.40	260.28	187.26
122	YEARLING STEERS	102.00	7.50	93,330.00	370.36	266.45
0	HEIFER CALVES	104.00	4.25	0.00	0.00	0.00
0	STEER CALVES	112.00	4.50	0.00	0.00	0.00
2	BULLS	41.00	16.50	1,353.00	5.37	3.86
23	CULL COWS	38.00	10.00	8,740.00	34.68	24.95
4,188	MANURE	0.13	8.00	4,188.22	16.62	11.96
TOTAL				173,202.62	687.31	494.49

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	90.00	6,210.00	24.64	17.73
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				16,881	66.79	48.20

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	353,293.95	1,401.96	1,008.64
	OTHER EXPENSES	4,790.23	19.01	13.68
SUBTOTAL		359,524	1,426.68	1,026.43

TOTAL OPERATING EXPENSES 418,552.58 1,660.92 1,194.95

NET OPERATING PROFIT -245,350 -973.61 -700.46

CAPITAL COST

	INTEREST ON OPERATING CAPITAL	0.00	0.00	0.00
	INTEREST ON MACHINERY AND IMPROVEMENTS	2,242.00	8.90	6.40
	INTEREST ON LIVESTOCK	29,486.80	117.01	84.18

TOTAL CAPITAL COST 31,728.80 125.91 90.58

RETURN TO RISK -277,079 -1,099.52 -791.05

BUDGET SUMMARY

GROSS RETURN	173,203
VARIABLE OPERATING EXPENSES	59,028.40
RETURN OVER VARIABLE EXPENSES	114,174
FIXED EXPENSES	6,230
NET FARM INCOME	107,944
LABOR AND MANAGEMENT COST	353,294
NET OPERATING PROFIT	-245,350
CAPITAL COST	31,728.80
RETURN TO LAND AND RISK	-277,079

Table 13. Summary of per acre costs and returns for an above-average managed farm, Arch Hurley
 Conservancy District, Quay County, 2006.

	ASCD DIVERTED	ALFALFA EST.	ALFALFA HAY	WHEAT SORGHUM FLOOD	GRAIN PASTURE	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		130.00	3.75	4.03	14.00			12.00
GOVERNMENT PAYMENTS	0.00		0.00	11.05	16.88	0.00			0.00
SECOND INCOME	0.00		32.00	48.00	32.00	0.00			0.00
GROSS RETURN	99.62		422.00	152.80	157.69	140.00			168.00
CASH OPERATING EXPENSES									
SEED	14.40	55.28		14.40	8.61		0.00		
FERTILIZER	46.50	30.60	22.60	42.20	42.20	38.20	30.60	42.20	
CHEMICALS				15.07	15.97				
CROP INSURANCE				0.39	0.30				
OTHER PURCHASED INPUTS			56.56						
CANAL WATER	10.00	4.00	18.00	14.00	14.00	15.00	4.00	18.00	
FUEL, OIL & LUBRICANTS-EQUIPMENT	17.76	13.55	28.28	21.94	25.19	1.55	14.33	1.55	
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			0.15	0.15	0.15	0.15		0.15	
OTHER EXPENSES	0.00	0.00	35.27	35.26	35.26	35.26	0.00	35.26	
TOTAL CASH EXPENSES	96.58	109.55	175.84	154.75	155.37	90.91	55.35	97.91	
RETURN OVER CASH EXPENSES	3.03	-109.55	246.16	-1.95	2.31	49.09	-55.35	70.09	
FIXED EXPENSES	19.32	15.21	116.77	40.96	50.60	1.57	15.67	23.70	
TOTAL EXPENSES	115.90	124.77	292.61	195.71	205.97	92.48	71.01	121.61	
NET FARM INCOME	-16.29	-124.77	129.39	-42.91	-48.28	47.52	-71.01	46.39	
LABOR AND MANAGEMENT COSTS	24.91	309.40	679.72	553.47	504.14	244.93	260.84	502.56	
NET OPERATING PROFIT	-41.20	-434.17	-550.34	-596.38	-552.43	-197.42	-331.86	-456.17	
CAPITAL COSTS									
INTEREST ON OPERATING CAPITAL	0.00		0.00	0.00	0.00	0.00		0.00	
INTEREST ON EQUIPMENT INVESTMENT	0.00		0.00	0.00	0.00	0.00		0.00	
ASCS ACR (SET ASIDE)				4.12	4.12				
TOTAL CAPITAL COSTS	0.00	0.00	0.00	4.12	4.12	0.00	0.00	0.00	
RETURN TO LAND AND RISK	-41.20	-434.17	-550.34	-600.50	-556.55	-197.42	-331.86	-456.17	

Table 14. Whole Farm Summary, Arch Hurley Conservancy District,
Quay County, 2006.

GROSS RETURNS			
ALFALFA HAY	100.00 ACRES		
CROP		36,240.00	
GRAZING		3,200	
WHEAT	128.00 ACRES		
CROP		12,000.00	
GRAZING		6,144.00	
DIRECT PAYMENT		1,414.40	
COUNTER CYCLICAL PAYMENT		0.00	
GRAIN SORGHUM	165.00 ACRES		
CROP		17,953.65	
GRAZING		5,280.00	
DIRECT PAYMENT		2,025.00	
COUNTER CYCLICAL PAYMENT		0.00	
BERMUDAGRASS	100.00 ACRES		
CROP		14,000.00	
JOSE WHEATGRASS	100.00 ACRES		
CROP		16,800.00	
COUNTER CYCLIC	7.50 ACRES	747	
LIVESTOCK		173,202.62	
GROSS RETURN			<u>289,007</u>
CASH OPERATING EXPENSES			
FORAGE		42,147	
FEED AND LIVESTOCK		14,906	
SEED		4,311.61	
FERTILIZER		23,931.36	
CHEMICALS		4,564.17	
CROP INSURANCE		100.00	
OTHER PURCHASED INPUTS		5,656.20	
CANAL WATER		9,397.00	
FUEL, OIL & LUBRICANTS-EQUIPMENT		10,651.72	
FUEL-IRRIGATION		0.00	
REPAIRS		5,604.08	
CUSTOM CHARGES		0.00	
LAND TAXES		88.95	
OTHER EXPENSES		25,701.84	
TOTAL CASH EXPENSES		<u>147,060</u>	
RETURN OVER CASH EXPENSES			141,946.45
FIXED EXPENSES		20,394.95	
TOTAL EXPENSES		<u>167,455.28</u>	
NET FARM INCOME			121,551.51
LABOR AND MANAGEMENT COSTS		8,381.20	
NET OPERATING PROFIT			113,170.31
CAPITAL COSTS			
INTEREST ON OPERATING CAPITAL		0.00	
INTEREST ON EQUIPMENT INVESTMENT		0.00	
INTEREST ON LIVESTOCK ENTERPRISE		31,728.80	
TOTAL CAPITAL COSTS		<u>31,729</u>	
RETURN TO LAND AND RISK			<u>81,441.51</u>

LAND VALUE	TOTAL INVESTMENT	RETURN TO RISK*	RETURN ON INVESTMENT**
200.00 /ACRE	#####	81,441.51	0.20
300.00 /ACRE	#####	81,441.51	0.18
400.00 /ACRE	#####	81,441.51	0.16
500.00 /ACRE	#####	81,441.51	0.15
600.00 /ACRE	#####	81,441.51	0.14
700.00 /ACRE	#####	81,441.51	0.13
800.00 /ACRE	#####	81,441.51	0.12
900.00 /ACRE	#####	81,441.51	0.11
1,000.00 /ACRE	#####	81,441.51	0.11
1,100.00 /ACRE	#####	81,441.51	0.10
1,200.00 /ACRE	#####	81,441.51	0.09

* 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)